Corporate influence and the academic computer science discipline. [3: Berkeley, public funds and private interests]

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June 26, 2022

abstract

Prosopography of another major academic center for computer science, with the distinction of being a public place of learning and research...

Introduction

In the same way that a portion of consumers of cyberpunk media think "wow! so COOL!", at every turn of a page and flashing image, entirely missing the point and overall message, we are sure that some readers will go through these studies taking notes on what the latest academic fashions and trends are, where to apply, where to get their next funding from.

In other words, they see sociology as a book of good manners and and reduce it to a manual on how to get ahead in life. Some people are just lost beyond redemption, and it is unfortunately not a matter of lack of education with them.

Hustlers should be in the textual company of real hustlers, who at least had style : The Notorious BIG, as he tells us in one of his songs, went from eating canned tuna to mingling with the elite. May these 'scholars' escape his programmed fate, and live long lives in the public service – as they, *theoretically*, should...

abbreviations

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 P  = professor
con = consultant ('advisor', 'counsil', ...)
fo  = founder
f.  = fellowship
G   = Google
I   = Intel
AMZ = Amazon
DEC = Digital Equipment Corporation
M   = Million, implied US Dollars
LockheedM = Lockheed Martin
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	Academic rank	Corp. funding		Corp. employment, side-role	PhD
Pieter Abbeel	Professor	G c. 1M	x	AIX Ventures, Covariant [fo.], OpenAI [con]	Stanford
Krste Asanovic	Professor		x	SiFive Inc. [fo.]	Berkeley
Babak Ayazifar	Teaching P.		x	Patent prosecution at Ropes & Gray	MIT
Peter Bartlett	Professor	G award	x	SAC Capital Advisors, Gen. Electric [con]	Queensla
Alexandre Bayen	[Liao-Cho] P.	G, IBM awards	x	G, Uber, BAE Systems [con]; fo. many	Stanford
Christian Borgs	Professor		x	MS (”*for over 22 years*”]	Munich
John F. Canny	Professor	Packard f.			MIT
Jennifer Chayes	Professor		x	MS (”*for over 20 years*”)	Princeton
James Demmel	Professor				Berkeley
Alexei Alyosha Efros	Professor				Berkeley
Laurent El Ghaoui	Professor	G grant	x	SAC Capital Management	Stanford
Hany Farid	Professor		x	Snap, TikTok; fo. [con]	Pennsylva
Armando Fox	Professor	G grant, IBM, Intel awards	x	Intel; G, IBM [con]; fo.	Berkeley
Jack Gallant	'Below the line' P.	F ”392,000” ('brain activity')			Yale
Dan Garcia	Teaching P.	G (1M), LockheedM, Apple	x	”Google CS4HS Ambassador”	Berkeley
Ken Goldberg	Professor		x	Ambidextrous Robotics [fo.]	Carnegie
Shafi Goldwasser	Professor	IBM award	x	Duality [fo.]	Berkeley
Venkatesan Guruswami	Professor	IBM f.	x	MS	MIT
Marti Hearst	Professor	G, AMZ, IBM, MS.. (3.5M)	x	IBM, HP, Xerox	Berkeley
Joseph M. Hellerstein	Professor	IBM award	x	Intel; Trifacta, Cohera/Oracle [fo.]	Wisconsi
Paul N. Hilfinger	Teaching P.				Carnegie
Michael Jordan	[Pehong Chen] P.				UCSD
Anthony D. Joseph	Professor				MIT
Daniel Klein	Professor	MS f.		IBM, Cisco, Sun etc. [con]	Stanford
John D. Kubiatowicz	Professor	IBM f.			MIT
Jennifer Listgarten	Professor	'Chan Zuckerberg' [ie. F]	x	MS	Toronto
Michael Lustig	Professor		x	Jigami Ltd.	Stanford
Jitendra Malik	Professor	IBM aw., f.	x	G, Yahoo!	Stanford
Jelani Nelson	Professor	G, IBM aw., Xerox, Akamai f.			MIT
James O'Brien	Professor	Dreamworks aw.	x	Pixelux; Juice Labs [con]; Get Klothed [fo.]	Georgia
Eric Paulos	Professor		x	Intel	Berkeley
Kristofer Pister	Professor		x	Smart Dust/Linear Technology [fo.]	Berkeley
Kannan Ramchandran	Professor		x	AT&T	Columbia
Satish Rao	Professor		x	NEC	MIT
Sylvia Ratnasamy	Professor	Intel, Yahoo! aw.	x	Intel	Berkeley
Benjamin Recht	Professor				MIT
Jaijeet Roychowdhury	Professor	Nokia prize	x	AT&T, CeLight Inc.	Berkeley
Stuart J. Russell	[Smith-Zadeh] P.	['NATO Scholar']	x	IBM	Stanford
Anant Sahai	Professor		x	Enuvis, Inc.	MIT
Koushik Sen	Professor				Illinois
Sanjit A. Seshia	Professor		x	MS, HP; Decyphir Inc. [fo]	Carnegie
Jonathan Shewchuk	Professor				Carnegie
Alistair Sinclair	[Kikuo Kaoru Ogawa] P				Edinburg
Dawn Song	Professor	G, IBM, 'major tech companies'			Berkeley
Yun S. Song	Professor	'Chan Zuckerberg'[F], Packard f			Stanford
Costas J. Spanos	Professor		x	DEC	Carnegie
Ion Stoica	Professor		x	Databricks, Conviva [fo.]	Carnegie
Bernd Sturmfels	Professor	Packard f.			Washingt
Claire Tomlin	[Charles Desoer] P.				Berkeley
Umesh Vazirani	[Roger Strauch] P.				Berkeley
David A. Wagner	Professor	IBM aw., Intel SCRUB			Berkeley
Martin Wainwright	Professor				MIT
Laura Waller	Professor	Zuckerberg[F], Moore[I], Packard			MIT
John Wawrzynek	Professor		x	Schlumberger [con]	Carnegie
Katherine A. Yelick	Professor	I and MS 6M [+ DoD]			MIT
Bin Yu	Professor	MS ['founding co-director' lab]	x	Lucent	Berkeley

-. Composition of the test population

Included in this study were all full professors of computer science at Berkeley. A notable exclusion are emeritus professors as we wanted to get a clear picture of Berkeley today - as opposed to how it might have, still, been 30 or 40 years ago. We hypothesize that the group of emeritus professors, born around or in the first half of the 20th century, differ in ways that are significant, and have diverging characteristics when compared to the current generation (24 in total[1]). "Teaching professors", so called, were included even though they may not be viewed by some as completely equal to non-prefix, qualifier, potentially diminutive-free professors (8 in total, incl. emeritus[2]). Berkeley has a peculiar nomenclature where affiliate appointments are called "below the line" - This affects only 1 individual relevant to the study. Finally, 3 professors "in residence" were not taken into account for the analysis.

(n=56)

1. Education : a private education as defining feature for CS faculty

fig. Berkeley CS professors by PhD institution

Berkeley	16	(29%)
MIT	12	(21%)
Stanford	8	(14%)
Carnegie Mellon	7	
one each :	13	Columbia, Edinburgh, Georgia Tech, Illinois, Munich, Pennsylvania, Princeton, Queensland, Toronto, UCSD, Washington, Wisconsin, Yale

n,t=56

fig. Berkeley CS professors by PhD institution : geographical origins

USA	52 (93%)
Canada	1
Australia	1
UK	1
Europe (rest)	1

n,t=56

fig. Berkeley CS professors by PhD institution : US public vs. private

Public	21 (40%)
Private	31 (60%)

n,t=52

Broadly speaking Berkeley appears to be more open to professors with a public educational background (here measured by PhD origin), however primarily recruited from its own ranks (about 1/3 overall). This becomes especially obvious when compared to recruitment practices by Stanford and even more so MIT.

Although this announcement must probably be tempered as former MIT and Stanford PhD students combined still form over one third, (35%), of Berkeley CS faculty.

However, it is still astonishing that even a public institution should prefer private profile faculty to its own public model of education : a minority, 40% of Berkeley CS faculty have obtained their PhD from public US colleges. A private education, even at the University of California's grandest institution, remains the best sign of a fine scholar - and by which future colleagues are recognized...

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[1]e.g. Richard Karp (algorithms), Christos Papadimitriou (algorithms), David Patterson (comp. architecture, sunsetting at Google)..

[2]Among them is Brian Harvey, one of the great functional programming teachers, and one of few computer scientists with a broad education beyond merely their own little yard. Among associate teaching professors is, exempli gratia, John DeNero (a Google fanboy/former employee). etc.

2. Corporate influence : funding, employment, "consulting" etc.

Pieter Abbeel, (a product of Stanford), has the dubious honor of ranking high among morally bankrupt computer scientists : when asked about Google investments in a form used by (public) universities to determine conflicts of interests, he first declared none... but, then recalled the small amount of 100,000 to possibly 1 million of his own (or family) dollars in Google.

He takes great care in hiding this information from his various web sites (despite being chit-chatty on about everything else).[3]

To make full sense of that "blunder", one must also consider that Abbeel is part of an organization called "OpenAI" which is presented as antithesis to Google's Deepmind; except it is funded by Musk and a series of other Tech characters and fixtures, (from MS to YC), that be trusted as much which is to say just as little...

Babak Ayazifar, exempli gratia, has a colorful corporate employment history and background as a patent prosecutor : per Berkeley EECS's profile,

> "Prior to his arrival at Berkeley, Babak was a Technical Specialist in the Intellectual Property and Technology Group of Ropes & Gray, LLP in Boston. His patent prosecution and related activities spanned a range of technologies, such as mechanical devices, intravascular MRI, DNA Microarray data analysis, and encrypted communication using chaotic systems. Babak is a patent agent, registered to practice before the US Patent and Trademark Office"

Dan Garcia, a diverse pedagogue, teaches about e.g. "Social Implications of Computing", but saw no issues with funding from Lockheed or his years if not decades long collaboration with Google (in addition ot other companies).

Suffering from similar schizophrenia is psychologist Jack Gallant, a member of the Berkeley "Center for Ethics" (where he is on the Steering Committee), and whose description there reads :

> "He is actively involved in neuroethics and the potential implications of future neurotechnology for privacy, agency and the sense of self. He regularly gives presentations on implications of neuroscience and neurotechnology in the law to the National Academy of Sciences and to Circuit Courts."

Except we know from financial disclosure forms that Gallant received about half a million from Facebook (in 2017), for research on - quote - "Decoding imagined speech from brain activity". It sounds like someone trying to transcribe what people think...

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[3]Gallant likewise about his dealings with Facebook.

CALIFORNIA FORM 700-U
STATEMENT OF ECONOMIC INTERESTS
FOR
PRINCIPAL INVESTIGATORS
A Public Document

FAIR POLITICAL PRACTICES COMMISSION

Please type or print in ink.

Date Received
Campus Use Only

Campus _____
ID No _____

NAME (LAST)	(FIRST)	(MIDDLE)	TELEPHONE NUMBER
Gallant	Jack		(510) 361-9750

ACADEMIC UNIT OR DEPARTMENT	MAIL CODE	E-MAIL ADDRESS
Helen Wills Neuroscience Institute	3192	gallant@berkeley.edu

TITLE OF RESEARCH PROJECT
Decoding imagined speech from brain activity

1. Information Regarding Funding Entity
(Use a separate Form 700-U for each funding entity.)

Name of Entity:
Facebook

Address of Entity:
1 Hacker Way, Menlo Park, CA 94025

Principal Business of Entity:
Technology / Internet

Amount of Funding: $ 392,000

Estimated ☐   Actual ☐

2. Type of Statement (Check at least one box)

☒ Initial (for new funding)

Date of initial funding: 04 / 19 / 17

3. Filer Information - Cont.

D. Have you received loans from the entity in Part 1 for which the balance exceeded $500 during the reporting period?
No ☒   Yes ☐ – highest balance

☐ $500 - $1,000   ☐ $1,001 - $10,000
☐ $10,001 - $100,000   ☐ Exceeded $100,000

If you checked "yes," was the loan
☐ Secured   ☐ Unsecured   Interest rate _____%

Was the loan entirely repaid within the last 12 months?
☐ No   ☐ Yes

E. Have you received gifts from the entity listed in Part 1 within the last 12 months valued at $50 or more?
No ☒   Yes ☐ – describe below.

Description: _____

Hellerstein, one can read, "*In addition to his role in academia, ... has been a leader in the technology industry.* " [personal website] - reading all of these statements, as if the most natural thing in the world, and obvious beyond questioning, much feels like computer science is in a state closer to cave paintings and alchemy than a mature science. A principal criterion of any science still remains independence from outside influence : Religion in the past, replaced now by corporate, worldly influence - far more insidious.

Generally : Why would a computer scientist need to be a captain of industry, (as expressed differently above), and further a "*technical advisory [to] a number of computing and Internet companies*" [ibid.]? There is nothing 'natural' about any of it (obvious individual profit motives excluded). On the contrary, there is - based on principle and basic science history - a lot speaking against these various phenomena being favorable.

3. Universities as networking clubs for quid pro quo private sector roles

But, here again when university life gets in the way of profit it can be easily discarded :

"*I was on leave from UC from July 2003 to 2006 to work for SAC Capital Management, a hedge fund based in New York and Connecticut.*" [El Ghaoui, Berkeley EECS page]

Do university departments, divisions in computer science serve as corporate networking events, club and circles? Berkeley CS faculty Peter Bartlett is another "ex" SAC Capital...

Similarly Armando Fox gives himself as a 'technical advisor' for Gradescope [CV], which just so happens to be Peter Abbeel's side-business (when he is not, officially at least formally, a researcher and public employee of the University of California...).

Borgs created Microsoft New England, Guruswami was employed there.

4. Public university resources used for starting companies

If a capitalist remote from education were told there was a place they could use (electricity, computing power, highly

intelligent workers submitted to stark Medieval hierarchies of power) at no cost, to start companies they would laugh. But, professors at universities, in particular CS professors have long known better : the number of start ups, private of course, started in this way is likely innumerable. Did the universities get any benefit from it? Did the public? Did the tax payers? Very unlikely in most if not all cases.

Bayen, a hustler academic, tied to Google and the defense sector, (the best of both worlds, public and private...) knows all about the best-kept-secret game of professor led start ups being himself experienced in that area :
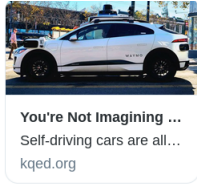
Major research projects

- Principal Investigator, FLOW Jan. 2018 - Present
  Budget to date: ~2M
  Team: 10 (3 PhD, 5 MEng, 2 undergraduate students).
  FLOW leverages state-of-the-art deep RL libraries and the open-source microsimulator, SUMO, enabling the use of rein-forcement learning to design and train controllers in traffic settings. It develops deep-RL algorithms applicable to mixed autonomy traffic, which will ultimately be deployed for both self-driving trucks and cars.
  Project URL: http://berkeleyflow.github.io/⧉

- Principal Investigator, *NestSense*, startup spin-off: *SafelyYou Inc.* Sep. 2014 - Present
  Budget to date: ~500K (+~1.5M externally to the university)
  Team: 8 (1 PhD, 5 MEng, 1 staff, 1 nurse, 1 occupational therapist).
  The goal of this project is to complete prototyping of the hardware ecosystem for in-home monitoring of patients with Alzheimer's disease (AD), to begin data collection with subjects, and to test novel algorithms based on this data. The hardware ecosystem consists of a combination of cameras, Android Wear smartwatches, Android phones, and bluetooth in-home sensors. Data collection will be achieved through a collaboration between clinicians at UCSF, UC Davis and a group of the EECS department at UC Berkeley.
  Project URL: http://safely-you.com/⧉

[Bayen website]

Computer scientists are very imaginative when it comes to describing that practice : "knowledge transfer", they call it grandiosely, as if a great service was hereby extended to human kind. Bayen, more the sporty type considering his past military experience, prefers "spin off"; at which point, one might almost be tempted to picture and imagine elegant ballet dancers....

5. Normalization of side ventures for the new age academic

Pieter Abbeel is a busy man. His Berkeley EECS profile page describes him as founder of many companies, (whose domain of application all seem more dangerous one than the other) :

"- Gradescope (AI to help teachers with grading homework and exams),
- Covariant (AI for robotic automation of warehouses and factories)"

[if only the purpose of those robots was to free humans from labor instead of being used, as they are or are going to be, to drive down wages and create a bigger reserve army of formerly employed, now unemployed with no easily transferable skills...]

He is also described as "*a frequently sought after speaker worldwide for C-suite sessions on AI future and strategy*" and as someone whose "*work is frequently featured in the press, including the New York Times, Wall Street Journal [etc. etc.]*" [ibid.]

Dawn Song, ex. gratia..., is a busy bee :
Not only "*She is the recipient of various awards including [long list] from IBM, Google and other major tech companies*" [Berkeley EECS page] but : "*She is also a serial entrepreneur and has been named on the Female Founder 100 List by Inc. [and other magazines]*"   [personal website]

Well : congratulations Madame Song! Hopefully your students and your peers, through your independent research, will benefit from all of these various extra curricular activities!

6. Corporate influence disguised as foundations/philanthropy

Laura Waller, ex. gratia, is representative of a new generation of brave new world academics :

> "*She is a Moore Foundation Data-Driven Investigator, Bakar fellow, Distinguished Graduate Student Mentoring awardee, NSF CAREER awardee, Chan-Zuckerberg Biohub Investigator, SPIE Early Career Achievement Awardee and Packard Fellow.*" [Berkeley EECS page]

But, all this talk of "foundations" and philanthropy and cutesy "Biohubs", do not change the fact that these are all awards and funding derived from Big Tech : 1. Moore is Intel fortune derived 2. "Chan Zukerberg", so called, is connected to Facebook's wealth 3. Packard (sometimes found as "Lucile [and husband] Packard") is HP derived...

7. Dangerous cocktail : high academic achievement and amoralism

Jitendra Malik, he informs us, was "*one of the top ten students in the Indian School Certificate Exam*" [CV], obtained a PhD at Stanford, became a full professor at Berkeley within ten years, and in 2015 – having accumulated all of that wisdom and experience and knowledge - joined Google.

The Professor Wawrzynek, a Carnegie Mellon man himself, consulted for Schlumberger (a company of the oil business)...

8. Misc

Shafi Goldwasser is also P. at Berkeley, where she directs the Simons Institute (NB due to using an older CV without checks we missed Goldwasser's latest capitalist development, role)

Hilfinger has a reputation as a tough teacher apparently leading to a joke among students emphasizing difficulty... (see also sites such as e.g. ratemyprofessors.com, as a source)

Already highlighted by us previously were the Univ. of California disclosure funding forms which we found while preparing a broader, less focused study on a similar subject.

Ref.

https://www.eecs.berkeley.edu/Faculty/Lists/CS/faculty.html
https://vcresearch.berkeley.edu/faculty/ (second reference)
https://simons.berkeley.edu/people/ (third reference - more restricted)

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Pieter Abbeel          https://people.eecs.berkeley.edu/~pabbeel/ ; https://www2.eecs.berkeley.edu/Faculty/Homepages/abbeel.html
Krste Asanovic         https://people.eecs.berkeley.edu/~krste/
Babak Ayazifar         https://www2.eecs.berkeley.edu/Faculty/Homepages/ayazifar.html
Peter Bartlett         https://www.stat.berkeley.edu/~bartlett/bio.html
Alexandre Bayen        https://bayen.berkeley.edu/alex-bayen ; https://www2.eecs.berkeley.edu/Faculty/Homepages/bayen.html
Christian Borgs        https://www2.eecs.berkeley.edu/Faculty/Homepages/borgs.html
John F. Canny          https://www2.eecs.berkeley.edu/Faculty/Homepages/canny.html
Jennifer Chayes        www2.eecs.berkeley.edu/Faculty/Homepages/jchayes.html ; jenniferchayes.com/CV/chayes_cv.pdf [22 pp.]
James Demmel           https://www2.eecs.berkeley.edu/Faculty/Homepages/demmel.html
Alexei Efros           https://people.eecs.berkeley.edu/~efros/cv.html
Laurent El Ghaoui      https://www2.eecs.berkeley.edu/Faculty/Homepages/elghaoui.html ; people.eecs.berkeley.edu/~elghaoui/
Hany Farid             https://farid.berkeley.edu/downloads/cv.pdf [22 p.]
Armando Fox            https://www2.eecs.berkeley.edu/Faculty/Homepages/fox.html ; https://www.armandofox.com/contact/ [22 pp.]
Dan Garcia             eecs.berkeley.edu/Faculty/Homepages/garcia.html ; people.eecs.berkeley.edu/~ddgarcia/DanGarciaCV2021.pdf [34
Ken Goldberg           https://www2.eecs.berkeley.edu/Faculty/Homepages/goldberg.html ; https://goldberg.berkeley.edu/cv.html
Shafi Goldwasser       https://dualitytech.com/about-us/ ; people.csail.mit.edu/shafi/(...)_CV_2014.pdf [20 pp.] ; simons.berkeley.
Venkatesan Guruswami   https://people.eecs.berkeley.edu/~venkatg/CV/venkat-CV-web.pdf [25 pp.]
Marti Hearst           eecs.berkeley.edu/Faculty/Homepages/hearst.html ; people.ischool.berkeley.edu/~hearst/vitae.pdf [28 pp.]
Joseph Hellerstein     https://dsf.berkeley.edu/jmh/biography.html
Paul Hilfinger         https://people.eecs.berkeley.edu/~hilfingr/ ; eecs.berkeley.edu/Faculty/Homepages/hilfinger.html
Michael Jordon         eecs.berkeley.edu/Faculty/Homepages/jordan.html ; https://people.eecs.berkeley.edu/~jordan/jordan-bio.txt
Anthony D. Joseph      https://www2.eecs.berkeley.edu/Faculty/Homepages/joseph.html; https://people.eecs.berkeley.edu/~adj/
Daniel Klein           https://www2.eecs.berkeley.edu/Faculty/Homepages/klein.html ; https://people.eecs.berkeley.edu/~klein/
John Kubiatowicz       eecs.berkeley.edu/Faculty/Homepages/kubiatowicz.html ; people.eecs.berkeley.edu/~kubitron/resume.pdf [8 pp.]
Jennifer Listgarten    http://www.jennifer.listgarten.com/
Michael Lustig         https://people.eecs.berkeley.edu/~mlustig/CV.html
Jitendra Malik         https://people.eecs.berkeley.edu/~malik/malik-cv-full.pdf
Jelani Nelson          eecs.berkeley.edu/Faculty/Homepages/minilek.html ; people.eecs.berkeley.edu/~minilek/cv.pdf [22 pp.]
James O'Brien          https://www2.eecs.berkeley.edu/Faculty/Homepages/obrien.html ; https://people.eecs.berkeley.edu/~job/
Eric Paulos            https://www2.eecs.berkeley.edu/Faculty/Homepages/paulos.html
Kristofer Pister       https://www2.eecs.berkeley.edu/Faculty/Homepages/pister.html ; https://people.eecs.berkeley.edu/~pister/
Kannan Ramchandran     https://people.eecs.berkeley.edu/~kannanr/
Satish Rao             https://people.eecs.berkeley.edu/~satishr/ ; https://simons.berkeley.edu/people/satish-rao
Sylvia Ratnasamy       https://people.eecs.berkeley.edu/~sylvia/ ; https://span.cs.berkeley.edu/people.html
Benjamin Recht         https://people.eecs.berkeley.edu/~brecht/recht-cv.pdf [18 pp.]
Jaijeet Roychowdhury   https://www2.eecs.berkeley.edu/Faculty/Homepages/jr.html ; https://jaijeet.github.io/jrpages/index.html
Stuart J. Russell      eecs.berkeley.edu/Faculty/Homepages/russell.html ; people.eecs.berkeley.edu/~russell/resume.html [36 pp.]
Anant Sahai            https://www2.eecs.berkeley.edu/Faculty/Homepages/sahai.html ; https://people.eecs.berkeley.edu/~sahai/
Koushik Sen            https://people.eecs.berkeley.edu/~ksen/sen-cv-2016.pdf [14 pp.]
Sanjit A. Seshia       https://www2.eecs.berkeley.edu/Faculty/Homepages/seshia.html ; https://people.eecs.berkeley.edu/~sseshia/CV/
Jonathan Shewchuk      https://www2.eecs.berkeley.edu/Faculty/Homepages/shewchuk.html ; https://people.eecs.berkeley.edu/~jrs/
Alistair Sinclair      https://www2.eecs.berkeley.edu/Faculty/Homepages/sinclair.html ; https://people.eecs.berkeley.edu/~sinclair/
Dawn Song              https://www2.eecs.berkeley.edu/Faculty/Homepages/song.html ; https://people.eecs.berkeley.edu/~dawnsong/
Yun Song               https://www2.eecs.berkeley.edu/Faculty/Homepages/yssong.html ; https://people.eecs.berkeley.edu/~yss/
Costas J. Spanos       https://www2.eecs.berkeley.edu/Faculty/Homepages/spanos.html
Ion Stoica             https://www2.eecs.berkeley.edu/Faculty/Homepages/stoica.html ; https://people.eecs.berkeley.edu/~istoica/
Bernd Sturmfels        https://www2.eecs.berkeley.edu/Faculty/Homepages/sturmfels.html ; https://math.berkeley.edu/~bernd/
Claire Tomlin          https://www2.eecs.berkeley.edu/Faculty/Homepages/tomlin.html ; https://people.eecs.berkeley.edu/~tomlin/
Umesh Vazirani         https://www2.eecs.berkeley.edu/Faculty/Homepages/vazirani.html ; https://people.eecs.berkeley.edu/~vazirani/
David A. Wagner        https://www2.eecs.berkeley.edu/Faculty/Homepages/wagner.html ; https://people.eecs.berkeley.edu/~daw/
Martin Wainwright      https://www2.eecs.berkeley.edu/Faculty/Homepages/wainwright.html ; https://people.eecs.berkeley.edu/~wainwri
Laura Waller           https://www2.eecs.berkeley.edu/Faculty/Homepages/waller.html ; www.laurawaller.com/
John Wawrzynek         https://www2.eecs.berkeley.edu/Faculty/Homepages/wawrzynek.html ; https://people.eecs.berkeley.edu/~johnw/
Katherine A. Yelick    eecs.berkeley.edu/Faculty/Homepages/yelick.html ; https://people.eecs.berkeley.edu/~yelick/cv.pdf [40 pp.]
Bin Yu                 https://www2.eecs.berkeley.edu/Faculty/Homepages/binyu.html ; https://binyu.stat.berkeley.edu/
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Appendix

- Dan Garcia CV, Google 1 Million ('targeted diversity'), Lockheed Martin etc.
- Jennifer Chayes CV, pp. 1-2 : 20+ years at Microsoft, awards "Women to watch out for", "Women we admire", "Women Leader in STEM" etc.
- Jack Gallant disclosure form : Facebook (2017) "brain"
- Gallant's page at the 'Kavli Center of Ethics', so-called
- Peter Abbeel disclosure form : Google (2014, 2015) "robots"
- Shafi's venture into capitalism (Duality "about" section)s
- DeNero crunchbase page
- Bayen : consulting for Google, testifying in a case involving Google, "spinning off" public university research...
- Marti Hearst CV, pp. 2-3 : funding by Google, Amazon "ML"... - total she estimates to be "*more than $3.5M*" [personal website])
- Katherine Yelick CV, pp. 37-40 : sources of funding

320. Justin Hsia, Dan Garcia, and Swapneel Sheth. 2021. Student Teachers as Lead University Instructors (Birds of a Feather). In *Proceedings of the 52nd ACM Technical Symposium on Computer Science Education*. Association for Computing Machinery, New York, NY, USA, 1360.
DOI:https://doi.org/10.1145/3408877.3439520

321. Michael Ball, Dan Garcia, and Eric Arvai. 2021. Effective Video Production for Online and In-Person Courses (Workshop). In *Proceedings of the 52nd ACM Technical Symposium on Computer Science Education*. Association for Computing Machinery, New York, NY, USA, 1349.
DOI:https://doi.org/10.1145/3408877.3432509

322. Marnie Hill, Dan Garcia, Tiffany Barnes, Lauren Mock, Michael Ball, Amy Isvik, and Dave Bell. 2021. Teaching with the Beauty and Joy of Computing – AP CSP and More! (Workshop) In *Proceedings of the 52nd ACM Technical Symposium on Computer Science Education*. Association for Computing Machinery, New York, NY, USA, 1352. DOI:https://doi.org/10.1145/3408877.3432507

323. Daniel D. Garcia, Michael P. Rogers, and Andreas Stefik. 2021. Fun and Engaging Pre-CS1 Programming Languages (Panel). In *Proceedings of the 52nd ACM Technical Symposium on Computer Science Education*. Association for Computing Machinery, New York, NY, USA, 760–761.
DOI:https://doi.org/10.1145/3408877.3432570

324. Bojin Yao, Qitian Liao, Connor McMahon, and Daniel D. Garcia. 2021. Formal Categorization of Variants for Question Generators in Computer-Based Assessments (Poster). In *Proceedings of the 52nd ACM Technical Symposium on Computer Science Education*. Association for Computing Machinery, New York, NY, USA, 1244. DOI:https://doi.org/10.1145/3408877.3439683

325. Alexander C. Kafka, Daniel D. Garcia, Fred H. Cate, Ashok Goel, Marsha Lovett, and Morris Thomas. AI's impact on Teaching (Panel). *The Chronicle of Higher Education Virtual Panel*, Online, 2021-03-17.

326. Daniel D. Garcia. Achieving CSforALL with the Beauty and Joy of Computing (BJC) (Talk). *UNC Charlotte Spring 2021 Research Seminar Series*, Online, 2021-03-26.

327. Daniel D. Garcia. What is a "Core", anyway? (Archived Video Lecture). *College Board AP CS Principles Daily Lecture Series*, Online, 2021-03-29.

328. Daniel D. Garcia. Great Ideas in Computer Science, aka The Beauty and Joy of Computing (BJC) (Keynote). *University of Rhode Island Explore Computer Science Research Workshop, aka URI ExploreCSR 2021*, Online, 2021-04-08.

329. Daniel D. Garcia. The Beauty and Joy of Binary Numbers (Talk). *UC Berkeley bridges Multicultural Resource Center Mock Lecture*, Online, 2021-04-20.

330. Daniel D. Garcia, Christine Alvarado, and Rob Parke. Effective ~~Teaching~~ Learning, Mentoring, and Curriculum Development (Panel), *Academic Career Workshop for Underrepresented Junior Faculty and Senior Graduate Students*, Online, 2021-06-14.

GRANTS AND GIFTS AWARDED

1. **UCB Course Improvement Grant, CS301 (2001), A half-semester TA, Dan Garcia PI**
Together with TA Andrew Begel, created lecture notes, online roster, videotaping, `cgi-bin` programs which allowed for automatic, online journal entry & editing for teaching reflection.

2. **UCB Committee on Teaching Instructional Minigrant (2004), $500, Dan Garcia PI**
Purchased royalty-free music & sound effects (on CD-ROM and DVD-ROM) for computer graphics and animation pieces.

3. **HP Technology-for-Teaching Initiative (2004), $17,500 and $53,000 equipment, Dan Garcia PI**
Designed CS4 *(Intro to computing for engineers)* around a 20-laptop "HP mobile lab". Created a novel lab space with small tables for 6-8 students to sit together and work on a problem concurrently, pair programming, in Java.

4. **UCB Townsend for the Humanities GROUP Award (2006), $5,000, Dan Garcia & Greg Niemeyer co-PIs**
Together with Art Professor Greg Niemeyer and Pixar, designed novel "CNM190 : Advanced Digital Animation" course.

5. **UCB Committee on Teaching Instructional Minigrant (2008), $3,600, Dan Garcia PI**
Funding to support "Computer Science Illustrated" project; labor and materials.

6. **Bears Breaking Boundaries Contest Curricular Innovation (2009), $1,000, Dan Garcia & Brian Harvey co-PIs**
   Funding to support "CS10 : The Beauty and Joy of Computing" course development.
7. **Lockheed Martin Curricular Innovation (2009), $50,000, Dan Garcia & Brian Harvey co-PIs**
   Funding to support *CS10: The Beauty and Joy of Computing* course development.
8. **Apple, Inc. (2009), $150,000 equipment, Dan Garcia PI**
   Donation of 30 Mac Pro workstations + displays for EECS / CITRIS.
9. **Intel (2009), $12,000, Dan Garcia PI**
   Funding to support student development of an animation of their Routebricks™ project for their open house.
10. **CollegeBoard (Advanced Placement National Pilot, Phase I) (2010), $35,000, Dan Garcia PI**
    Funding to support *CS10: The Beauty and Joy of Computing* course development and High School teacher outreach.
11. **Google CS4HS (2010), $20,000, Dan Garcia PI**
    Funding to support "CS4HS Workshop", a 2-day High School teacher outreach and professional development workshop.
12. **Google CS4HS (2011), $15,000, Dan Garcia PI**
    Funding to support "CS4HS Workshop", a 2-day High School teacher outreach and professional development workshop.
13. **University of California (2011), $70,000, Dan Garcia PI, Brian Harvey co-PI**
    Funding to develop innovative *CSW10: The Beauty and Joy of Computing (BJC)*, the online companion to our CS10 class.
14. **NSF CE21: FRABJOUS CS – Framing a Rigorous Approach to Beauty and Joy for Outreach to Under-represented Students in Computing at Scale (2011), $1,000,000, Dan Garcia PI, Tiffany Barnes PI, Brian Harvey co-PI**
    (1138596) Funding to support Professional Development activities for 100 high school teachers nationwide to learn BJC.
15. **NSF CE21: Advanced Placement Computer Science: Principles – Summer 2011 Professional Development for UC Berkeley Cluster of High School Teachers (2011), $220,430, Dan Garcia PI, Brian Harvey co-PI**
    (1143566) Funding to support PD activities for UC Berkeley cluster of high school teachers to learn BJC.
16. **Google CS4HS (2012), $13,000, Dan Garcia PI**
    Funding to support "CS4HS Workshop", a 2-day High School teacher outreach and professional development workshop.
17. **NSF RAPID: Facilitating a CS-10K Community of Practice Testbed (2013), $200,000, Dan Garcia PI**
    (1250783) Funding to support CE21 PD facilitators to build and staff online community of practice.
18. **Google CS4HS (2013), $13,000, Dan Garcia PI**
    Funding to support "CS4HS Workshop", a 2-day High School teacher outreach and professional development workshop.
19. **NSF CE21: FRABJOUS CS – Framing a Rigorous Approach to Beauty and Joy for Outreach to Under-represented Students in Computing at Scale (2014), $113,450 supplement, Dan Garcia PI**
    (1443699) Funding to support Professional Development activities for 90 high school teachers nationwide to learn BJC.
20. **Google (2014), $13,000, Dan Garcia PI**
    Funding to support "CS4HS Workshop", a 2-day High School teacher outreach and professional development workshop.
21. **NSF CE21: Principled Assessment of Computational Thinking (PACT) (2012), $690,538, Dan Garcia Consultant**
    Funding for SRI International (SRI) to design, develop, and validate assessments of computational thinking (CT) for the high school Exploring Computer Science (ECS) curriculum. My role was to serve as an educational consultant on the advisory board.

22. **NSF CER: Import PCK: What 10K Novice Teachers Can Learn from Teachers with 10K Hours of Experience (2013), $771,095, Dan Garcia Consultant**
Funding for Harvey Mudd College to document, validate, and promote CS pedagogical content knowledge. My role was to serve as an educational consultant on their advisory board.

23. **NSF BP: The Development, Implementation, and Evaluation of an AP Computer Science Preparatory Sequence for Underrepresented High School Students (2013), $633,161, Dan Garcia Consultant**
Funding for Level Playing Field Institute to design and implement a comprehensive Advanced Placement computer science preparatory course sequence within its 3-year Summer Math and Science Honors Academy (SMASH) to prepare underrepresented high school students of color to pursue computer science degrees in higher education. My role was to serve as an educational consultant on the advisory board.

24. **NSF Computer Science in Secondary Schools (CS3): Studying Context, Enactment, and Impact (2014), $3,128,654, Dan Garcia Consultant**
Funding for SRI International (SRI) to work in partnership with the ECS curriculum developers, teachers, and the nonprofit Code.org who are involved in the scaling of ECS. Study how variation in curricular implementation influences student learning and determines not only what works, but also for whom and under what circumstances. My role was to serve as an educational consultant on the advisory board.

25. **NSF STEM-CP BJC4NYC: Bringing the Beauty and Joy of Computing to the Largest School System in the US. (2014), $7,874,876, Dan Garcia Senior Personnel**
Funding to develop curricular materials, based on the Beauty and Joy of Computing, for teaching CS Principles at the high school level using the Snap*!* programming language. Run in-person teacher-training programs each summer, and develop an online teacher development course. During the project, 100 high school teachers in New York City will be trained to teach this course, and early participants will also become teacher-trainers who will work with later participants. The teachers involved will become part of a Community of Practice that will continue to provide support for the teacher cohorts. My role was to (1) conduct summer professional development workshops; work w/EDC curriculum & Snap! software developers to review and suggest changes, (2) develop BJCx (with auto-grading features) for teachers as a small private online course (SPOC), (3) support BJC teachers online, and (4) serve as the liaison with the College Board as a member of the AP Computer Science Development Committee.

26. **NSF EDU: Teachers' Resources for Online Privacy Education (TROPE) (2014), $319,962, Dan Garcia Senior Personnel**
Funding for ICSI to develop a Teacher's Kit that supports high school educators and undergraduate instructors in teaching fundamental principles and best practices for online behavior to protect privacy. My role was to collaboratively develop these materials.

27. **edX (2014), $50,000, Dan Garcia PI**
Funding to support the development of BJCx, a year-long high school AP CS Principles course based on my UC Berkeley Beauty and Joy of Computing course.

28. **Google's 3X in 3 Years (2015), $900,000, Dan Garcia grant co-author**
Funding to the department for 3-year project to grow undergraduate capacity and support diversity via our "Scaling Computer Science through Targeted Engagement" project. The three objectives are (1) Decrease the intro GPA gap between experienced and inexperienced students by 50%, (2) Increase *Software Engineering* and *UI Design* enrollment by 500 total students/year, and (3) Increase the number of women and underrepresented minority CS majors by a factor of 3.

29. **Google CS4HS (2016), $34,460, Dan Garcia PI**
Funding to support "CSP4SFBayArea (aka CS4HS) Workshop", a 2-day High School teacher outreach and professional development workshop.

30. **NSF RAPID SInRGI: A Shared, Integrated Resource for "Global Impact" (2016), $200,000, Dan Garcia Senior Personnel**
Curate and develop teaching resources for AP Computer Science Principle's "Global Impact" learning objectives. My role: Co-author proposal, and as representative for the Beauty and Joy of Computing (BJC), highlight resources for Global Impact Big Idea – contribute materials, and work together with representatives from other curriculum providers to identify the best combination of approaches, and to create any new materials that are needed to fill gaps.

31. **NSF RAPID: Teaching Security in CSP (2016), $200,000, Dan Garcia Senior Personnel**
Develop security-related education materials for the community that is developing around the AP Computer Science Principles (CSP) course. My role: Co-author proposal, and co-develop resources that can be re-used by any provider offering the AP CS Principles curriculum.

32. **Hopper-Dean Foundation Computer Science Diversity Programs Fund (2016), $200,000, Dan Garcia PI**
The foundation granted $1M to the department to fund diversity initiatives; my $200k was used to support our online course BJCx, develop auto-grading exercises, software development and TA staff.

33. **NSF ENGAGE: A Game-based Curricular Strategy for Infusing Computational Thinking into Middle School Science (2016), $2,498,862, Dan Garcia Consultant**
Funding for NC State to study how deep, mastery-oriented gameplay can develop core computational thinking practices in middle school life science. My role: educational consultant for their advisory board.

34. **NSF CSforAll: EAGER: NetsBlox: Visual Programming Environment for Teaching Distributed Computing Concepts (2016), $299,798, Dan Garcia Consultant**
Funding for Vanderbilt University to build distributed computing activities for introductory computer science using Netsblox. My role: educational consultant to help build curricular materials.

35. **InfoSys Summer 2016 BJC PD Grant (2016), $184,500, Dan Garcia Senior Personnel**
Funding to support summer professional development for teachers learning the BJC curriculum.

36. **InfoSys Summer 2017 BJC PD Grant (2017), $311,975, Dan Garcia Senior Personnel**
Funding to support summer professional development for teachers learning the BJC curriculum.

37. **UCB Student Technology Fund (2017), $5,000, Dan Garcia PI**
Funding to support hardware for CS10 open-ended final projects: computer-controlled sewing machines, replacement i>clickers, Leap Motion sensors, and Finch Robots.

38. **InfoSys Summer 2018 BJC PD Grant (2018), $8,000, Dan Garcia Senior Personnel**
Funding to support summer professional development for teachers learning the BJC curriculum.

39. **NSF EHR STEM+C, CSforALL: Building a Computational Thinking Foundation in Upper Elementary Science with Narrative-Centered Maker Environments (2019), $1,599,339, Dan Garcia Consultant**
Funding to support design, development, and investigation of InfuseCS, an interactive learning environment for computational thinking that features maker-based digital storytelling and problem-based learning.

40. **NSF ITEST, Beyond CS Principles: Engaging Female High School Students in New Frontiers (2019), $595,380, Dan Garcia Consultant**
Funding to support design, development, and investigation of Cybersecurity, Internet-of-Things, and Machine Learning curriculum modules based on NetsBlox, an extension of the Snap! language.

41. **Hopper-Dean Foundation, Accelerating CS Diversity Programs Fund (2019), $600,000, Dan Garcia PI**
The foundation granted $3M to the department to fund diversity initiatives; my $600k was used to support our middle school curriculum, Spanish translation, software development and staff.

42. **UC Berkeley College of Engineering, Course Adaptation and Remote Delivery, Learning, and Assessment: Developing Question Generators and MOOC-like videos+quizzes for remote CS61C, CS10, and CS169A (2020), $60,000, Dan Garcia co-PI**
Funding to build Question Generators and MOOC-like videos and quizzes for CS61C and CS10 for remote delivery, learning, and assessment.

43. **California Governor's Office of Planning and Research, Reorienting Formative and Summative Assessment Towards Mastery Learning for Learner Success, Student Equity, and Institutional Resilience (2020), $650,000, Dan Garcia co-PI**
Funding to adapt and adopt the University Illinois at Urbana-Champaign's PrairieLearn platform for mastery learning in computer-based assessments, and study impact. UCB Award ID: 049488-001

44. **NSF EAGER, Student Mission Control for the International Space Station (2021), $298,944, Dan Garcia co-PI**
Funding to support development of an API, website, "Student Mission Control" interface, and curriculum modules centered on the data streaming out of the International Space Station. NSF Award #2027260

45. **Apple Inc., Export of CS61C for HBCUs (2021), $50,000, Dan Garcia co-PI**
Funding to support the "packaging" of CS61C for export and adoption by faculty at Historically Black Colleges and Universities (HBCUs), including a bootcamp for HBCU instructors.

CURRICULUM VITAE

Home Address: ▮▮▮▮▮▮▮▮▮▮▮▮
Boston, MA ▮▮▮▮
website: jenniferchayes.com
e-mail: jennifer@jenniferchayes.com

Office Address: Microsoft Research New England
1 Memorial Drive
Cambridge, MA 02142
e-mail: jchayes@microsoft.com

Education:

1979	B.A., Physics and Biology, Wesleyan University
1983	Ph.D., Mathematical Physics, Princeton University

Positions:

1983–1985	Postdoctoral Fellow in Mathematical Physics, Departments of Mathematics and Physics, Harvard University
1985–1987	Postdoctoral Fellow, Laboratory of Atomic and Solid State Physics and Mathematical Sciences Institute, Cornell University
1987–1990	Associate Professor (with tenure), Department of Mathematics, UCLA
1990–2001	Professor, Department of Mathematics, UCLA
1997–2005	Senior Researcher and Head, Theory Group, Microsoft Research
1997–2008	Affiliate Professor, Dept. of Physics, U. Washington
1999–2008	Affiliate Professor, Dept. of Mathematics, U. Washington
2005–2008	Principal Researcher and Research Area Manager for Mathematics, Theoretical Computer Science and Cryptography, Microsoft Research
2008–	Managing Director, Microsoft Research New England
2010–2018	Distinguished Scientist, Microsoft Corporation
2012–	Managing Director, Microsoft Research New York City
2018–	Technical Fellow, Microsoft Corporation
2018–	Managing Director, Microsoft Research Montreal

Long-Term Visiting Positions:

1994-95, 1997	Member, Institute for Advanced Study, Princeton
1995, May–July	ETH, Zürich
1996, Sept.–Dec.	AT&T Research, New Jersey

Awards and Honors:

1977	Johnston Prize in Physics, Wesleyan University
1979	Graham Prize in Natural Sciences & Mathematics, Wesleyan University
1979	Graduated 1st in Class, Summa Cum Laude, Wesleyan University
1984	National Science Foundation Postdoctoral Research Fellowship
1989	Alfred P. Sloan Foundation Research Fellowship
1993	Mortar Board Honor Society Teaching Award, UCLA
1994	Distinguished Teaching Award, Department of Mathematics, UCLA
2003	National Associate, The National Academies
2006	Fellow, American Association for the Advancement of Science
2008	Fellow, Fields Institute
2011	Fellow, Association of Computing Machinery
2011	Leadership Award, Women Entrepreneurs in Science and Technology
2011	Leading Women Award, Girl Scouts of Eastern Massachusetts
2012	Women to Watch Award, Boston Business Journal
2012	Women of Vision Leadership Award, Anita Borg Institute
2012	Women Leader in STEM, STEM Connector
2012	Diversity Champion, Boston Globe
2013	Fellow (Inaugural Class), American Mathematical Society
2013	Top Woman Engineer in Tech, Business Insider
2013	Woman We Admire, Ad Club of Boston
2013	Distinguished Alumnus Award, Wesleyan University
2013	Catalyst Award, Science Club for Girls
2014	Member, American Academy of Arts and Sciences
2015	John von Neumann Lecture Prize, Society for Industrial and Applied Mathematics (SIAM) (highest honor of SIAM)
2016	Honorary Doctorate, Leiden University
2016	Information Week's Twelve Inspiring Women in Data Science
2016	GirlStart 2016 Women in STEM Award
2017	Wheaton Inaugural Women in STEM Award
2018	Massachusetts Technical Leadership Council Distinguished Leader Award
2019	Member, National Academy of Sciences

CALIFORNIA FORM **700-U**	STATEMENT OF ECONOMIC INTERESTS	Date Received
FAIR POLITICAL PRACTICES COMMISSION	FOR PRINCIPAL INVESTIGATORS *A Public Document*	*Campus Use Only*

Please type or print in ink.

Campus _____

ID No _____

NAME (LAST)	(FIRST)	(MIDDLE)	TELEPHONE NUMBER
Gallant	Jack		(510) 361-9750

ACADEMIC UNIT OR DEPARTMENT	MAIL CODE	E-MAIL ADDRESS
Helen Wills Neuroscience Institute	3192	gallant@berkeley.edu

TITLE OF RESEARCH PROJECT

Decoding imagined speech from brain activity

1. Information Regarding Funding Entity

(Use a separate Form 700-U for each funding entity.)

Name of Entity:

Facebook

Address of Entity:

1 Hacker Way, Menlo Park, CA 94025

Principal Business of Entity:

Technology / Internet

Amount of Funding: $ 392,000

Estimated ☐   Actual ☐

2. Type of Statement (Check at least one box)

☒ Initial (for new funding)

Date of initial funding: 04 / 19 / 17

☐ Interim (for renewed funding)
Funding was renewed on: ___/___/___

3. Filer Information

A. Are you a director, officer, partner, trustee, consultant, employee, or do you hold a position of management in the entity listed in Part 1?   No ☒   Yes ☐

Title: _____

B. Do you, your spouse or registered domestic partner, or your dependent children have an investment of $2,000 or more in the entity listed in Part 1 above?
No ☐   Yes ☐ – value is:

☐ $2,000 - $10,000   ☒ $10,001 - $100,000
☐ $100,001 - $1,000,000   ☐ Exceeds $1,000,000

Date Disposed: ___/___/___, if applicable

C. Have you received income of $500 or more from the entity listed in Part 1 during the reporting period?
No ☒   Yes ☐ – amount is:

☐ $500 - $1,000   ☐ $1,001 - $10,000
☐ $10,001 - $100,000   ☐ Exceeds $100,000

Was this income received through your spouse or registered domestic partner? ☐ No   ☐ Yes

3. Filer Information - *Cont.*

D. Have you received loans from the entity in Part 1 for which the balance exceeded $500 during the reporting period?
No ☒   Yes ☐ – highest balance

☐ $500 - $1,000   ☐ $1,001 - $10,000
☐ $10,001 - $100,000   ☐ Exceeded $100,000

If you checked "yes," was the loan
☐ Secured   ☐ Unsecured   Interest rate _____%

Was the loan entirely repaid within the last 12 months?
☐ No   ☐ Yes

E. Have you received gifts from the entity listed in Part 1 within the last 12 months valued at $50 or more?
No ☒   Yes ☐ – describe below.

Description: _____

_____

Value: $_____   Date Received: ___/___/___

F. Has the entity in Part 1 paid for your travel during the reporting period?   No ☒   Yes ☐ – describe below.

Type of Payment: (check one) ☐ Gift   ☐ Income

Amt: $_____   date(s): ___/___/___   ___/___/___
(If gift)

Description and, if Gift, Travel Destination: _____

_____

4. Verification

I have used all reasonable diligence in preparing this statement. I have reviewed this statement and to the best of my knowledge the information contained herein and in any attached schedules is true and complete. I certify under penalty of perjury under the laws of the State of California that the foregoing is true and correct.

Date Signed 18 April 2017
(month, day, year)

Signature _____
(File the originally signed statement with your university.)

The Form 700-U is for university use only.
This statement is a public record under Gov. Code Section 81008(a).

CALIFORNIA FORM 700-U

FAIR POLITICAL PRACTICES COMMISSION

STATEMENT OF ECONOMIC INTERESTS
FOR
PRINCIPAL INVESTIGATORS
A Public Document

Please type or print in ink.   31754

NAME (LAST)	(FIRST)	(MIDDLE)	TELEPHONE NUMBER
ABBEEL	PIETER		5(10)642 7034

ACADEMIC UNIT OR DEPARTMENT	MAIL CODE	E-MAIL ADDRESS
EH1CS - Comp Sci Div Operations	1776	pabbeel@cs.berkeley.edu

TITLE OF RESEARCH PROJECT

Google Faculty Research Gift

1. Information Regarding Funding Entity

(Use a separate Form 700-U for each funding entity.)

Name of Entity:

Google Inc

Address of Entity:

1600 Amphitheatre Parkway, Mountain View, CA9403

Principal Business of Entity:

Internet-related services and products

Amount of Funding: $ _____ 90,879

Estimated ☐   Actual ☑

2. Type of Statement (Check at least one box)

☒ Initial (for new funding)

Date of initial funding: 10 / 09 / 14

☐ Interim (for renewed funding)
Funding was renewed on: ___/___/___

3. Filer Information

A. Are you a director, officer, partner, trustee, consultant, employee, or do you hold a position of management in the entity listed in Part 1?   No ☑   Yes ☐

Title: _____

B. Do you, your spouse or registered domestic partner, or your dependent children have an investment of $2,000 or more in the entity listed in Part 1 above?
No ☐   Yes ☑ – value is:

☐ $2,000 - $10,000   ☐ $10,001 - $100,000
☑ $100,001 - $1,000,000   ☐ Exceeds $1,000,000

Date Disposed: ___/___/___, if applicable

C. Have you received income of $500 or more from the entity listed in Part 1 during the reporting period?
No ☑   Yes ☐ – amount is:

☐ $500 - $1,000   ☐ $1,001 - $10,000
☐ $10,001 - $100,000   ☐ Exceeds $100,000

Was this income received through your spouse or registered domestic partner? ☐ No   ☐ Yes

3. Filer Information - *Cont.*

D. Have you received loans from the entity in Part 1 for which the balance exceeded $500 during the reporting period?
No ☑   Yes ☐ – highest balance:

☐ $500 - $1,000   ☐ $1,001 - $10,000
☐ $10,001 - $100,000   ☐ Exceeded $100,000

If you checked "yes," was the loan:
☐ Secured   ☐ Unsecured   Interest rate: _____%

Was the loan entirely repaid within the last 12 months?
☐ No   ☐ Yes

E. Have you received gifts from the entity listed in Part 1 within the last 12 months valued at $50 or more?
No ☑   Yes ☐ – describe below.

Description: _____

Value: $_____   Date Received: ___/___/___

F. Has the entity in Part 1 paid for your travel during the reporting period?   No ☑   Yes ☐ – describe below.

Type of Payment: (check one) ☐ Gift   ☐ Income

Amt: $_____   date(s): ___/___/___ ___/___/___
(If applicable)

Description: _____

4. Verification

I have used all reasonable diligence in preparing this statement. I have reviewed this statement and to the best of my knowledge the information contained herein and in any attached schedules is true and complete. I certify under penalty of perjury under the laws of the State of California that the foregoing is true and correct.

Date Signed ___10 | 20 | 2014___
(month, day, year)

Signature _____
(File the originally signed statement with your university.)

CALIFORNIA FORM 700-U

FAIR POLITICAL PRACTICES COMMISSION

STATEMENT OF ECONOMIC INTERESTS
FOR
PRINCIPAL INVESTIGATORS

A Public Document

RECEIVED AUG 2 1 2015

AUG 1 8 2015

Date Received
Campus. Use Only

COI ID No:

Please type or print in ink.   32245

Campus:

NAME (LAST)	(FIRST)	(MIDDLE)	TELEPHONE NUMBER
ABBEEL	PIETER		(510)642-7034

ACADEMIC UNIT OR DEPARTMENT	MAIL CODE	E-MAIL ADDRESS
EECS	1776	pabbeel@berkeley.edu

TITLE OF RESEARCH PROJECT

End-to-end robot skills learning

1. Information Regarding Funding Entity

(Use a separate Form 700-U for each funding entity.)

Name of Entity:

GOOGLE

Address of Entity:

600 Amphitheatre Parkway, Mountain View,CA 9403

Principal Business of Entity:

Internet-related services and products

Amount of Funding: $ _____ 750,000

Estimated ☑   Actual ☐

2. Type of Statement (Check at least one box)

☑ Initial (for new funding)

Date of initial funding: 09 / 01 / 15

☐ Interim (for renewed funding)
Funding was renewed on: ___/___/___

3. Filer Information

A. Are you a director, officer, partner, trustee, consultant, employee, or do you hold a position of management in the entity listed in Part 1?   No ☑   Yes ☐

Title: _____

B. Do you, your spouse or registered domestic partner, or your dependent children have an investment of $2,000 or more in the entity listed in Part 1 above?
No ☐   Yes ☑ – value is:

☐ $2,000 - $10,000   ☐ $10,001 - $100,000
☑ $100,001 - $1,000,000   ☐ Exceeds $1,000,000

Date Disposed: ___/___/___, if applicable

C. Have you received income of $500 or more from the entity listed in Part 1 during the reporting period?
No ☑   Yes ☐ – amount is:

☐ $500 - $1,000   ☐ $1,001 - $10,000
☐ $10,001 - $100,000   ☐ Exceeds $100,000

Was this income received through your spouse or registered domestic partner? ☐ No   ☐ Yes

3. Filer Information - *Cont.*

D. Have you received loans from the entity in Part 1 for which the balance exceeded $500 during the reporting period?
No ☑   Yes ☐ – highest balance:

☐ $500 - $1,000   ☐ $1,001 - $10,000
☐ $10,001 - $100,000   ☐ Exceeded $100,000

If you checked "yes," was the loan:

☐ Secured   ☐ Unsecured   Interest rate: _____%

Was the loan entirely repaid within the last 12 months?
☐ No   ☐ Yes

E. Have you received gifts from the entity listed in Part 1 within the last 12 months valued at $50 or more?
No ☑   Yes ☐ – describe below.

Description: _____

_____

Value: $_____   Date Received: ___/___/___

F. Has the entity in Part 1 paid for your travel during the reporting period?   No ☑   Yes ☐ – describe below.

Type of Payment: (check one) ☐ Gift   ☐ Income

Amt: $_____ date(s): ___/___/___ ___/___/___
                              (If gift)

Description: _____

4. Verification

I have used all reasonable diligence in preparing this statement. I have reviewed this statement and to the best of my knowledge the information contained herein and in any attached schedules is true and complete. I certify under penalty of perjury under the laws of the State of California that the foregoing is true and correct.

Date Signed ___8 | 12 | 2015___
                (month, day, year)

Signature _____
(File the originally signed statement with your university.)

The Form 700-U is for university use only.
This statement is a public record under Gov. Code Section 81008(a).

FPPC Form 700-U (2014/2015)
FPPC Advice Email: advice@fppc.ca.gov
FPPC Toll-Free Helpline: 866/275-3772 www.fppc.ca.gov

2014 Excellence in Teaching Award (School of Information)

2013 Named a Fellow of the ACM

2002 Excellence in Teaching Award (School of Information)

2002 IBM Faculty Fellowship ($40,000)

2000 NSF Career Grant, Principal Investigator ($300,000)

2000 Hellman Faculty Fund award ($30,000)

1999 Excellence in Teaching Award (School of Information)

1998 Okawa Foundation Fellow ($10,000)

Grants and Research Gifts

2021 Gift from AI2 ($50,000)

2021 Grant from Google ($34,000)

2020 Grant from Microsoft ($115,000)

2019 Gift from AI2 (additional) ($50,000)

2019 Grant from Sloan ($280,000)

2019 Gift from AI2 ($40,000)

2019 Grant from Bloomberg ($70,000)

2019 Grant from Amazon ML Research ($75,000)

2018 Grant from Amazon ML Research ($150,000)

2018 Grant from CLTC (co-PI) ($98,000)

2017 Grant from CZI (co-PI) ($59,000)

2014 Gift from Tableau ($50,000)

2013 Research Grant from Google ($200,000)

2013 MOOCLab Grant, UC Berkeley (co-PI) ($75,000)

2012 NEH Grant, Principle Investigator ($217,000)

2007 Research Grant from Google ($50,000)

2006 NSF Grant, Principle Investigator ($580,000)

2006 IBM Innovation Award ($12,000)

2006 Gift from FXPal ($10,000)

2004 Gift from Genentech ($40,000)

2003 NSF Grant, Principle Investigator ($840,000)

2003 Gift from Genentech ($20,000)

2003 Gift from Oracle Corporation ($30,000)

2002 Gift from Genentech ($20,000)

2002 Gift from Oracle Corp. ($20,000)

2001 ARDA AQUAINT Award, Principal Investigator ($1,000,000)

2000 ARDA Award, Principal Investigator ($200,000)

2000 Gift from Microsoft Research ($30,000)

2000 Gift from Oracle Corporation ($15,000)

1998 Sun Academic Equipment Grant (valued at $50,000)

1998 Gift from Adobe Systems ($7,000)

1994 NSF support AAAI for Fall Symposium on Improving Instruction of Artificial Intelligence ($9,800)

1989 California Legislative Grant

Program Chair and Organizational Activities

Nominating Committee, Association for Computational Linguistics, 2019-2021

Nominating Committee, SIGIR Academy, 2021-present.

President, Association for Computational Linguistics, 2018.

Executive Committee Officer, Association for Computational Linguistics, 2016-2019.

Nominating Committee, Karen Sparck-Jones Award, 2019, 2017.

Co-organizer, Bay Area Learning Analytics Conference, 2018.

Co-organizer, IEEE Infoviz workshop on Pedagogy in Information Visualization, 2017 and 2016.

Program Co-Chair, First Annual ACM Conference on Learning at Scale, 2014.

Steering Committee, ACM Learning at Scale Conference, 2014-2017.

Steering Committee, ACM SIGIR Conference on Human Information Interaction and Retrieval (CHIIR), 2014-2016.

Steering Committee, AAAI International Conference on Weblogs and Social Media (ICWSM), 2013-2015.

General Chair, Fourth AAAI International Conference on Weblogs and Social Media (ICWSM), 2010.

Co-organizer, Workshop on Search and Social Media, WSDM Workshop, 2010.

Co-organizer, Workshop on Search and Social Media, SIGIR Workshop, 2009.

Program Co-Chair, First Annual HLT/NAACL, 2003.

Program Co-Chair, ACM SIGIR, 1999.

Co-Organizer and Program Co-chair of the 1996 AAAI Spring Symposium on Machine Learning in Information Access.

Organizer and Program Chair of the 1994 AAAI Fall Symposium on Improving Instruction of Artificial Intelligence.

Editorial Positions

Associate Editor, ACM *Transactions on Computer-Human Interaction* (TOCHI), 2004-2020.

Associate Editor, ACM *Transactions on the Web* (TWeb), 2006-2012.

Associate Editor, ACM *Transactions on Information Systems* (TOIS), 1997-2006.

Editorial Board, *Computational Linguistics*, 1999-2002.

Editorial Board and Feature Editor, IEEE *Intelligent Systems*.

Research Funding

Project: BINOCULARS (Berkeley Institute for Programming Support for Irregular Applications)
Investigators: Katherine Yelick (PI), Costin Iancu (co-PI)
Source of Support: Department of Defense
Location for Project: LBNL
Duration: June 1, 2020 – September 30, 2022
Total Funding: $1,400,000

Project: GASNet
Investigators: Katherine Yelick (PI), Paul Hargrove (co-PI)
Source of Support: Department of Defense
Location for Project: LBNL
Duration: February 1, 2010 – September 30, 2022
Total Funding: $800,000

Project: Exascale Solutions to Microbiome Analysis (ExaBiome)
Investigators: Katherine Yelick (PI), Leonid Oliker (co-PI), Patrick Chain (LANL PI)
Source of Support: DOE (through ORNL)
Location of Project: LBNL
Duration: October 2016 – June 2023
Total Funding: $13,742,500,000 (est)

Project: SPX Collaborator Research: Global Address Programming with Accelerators
Investigators: John Owens (UC Davis, Coordinating PI), Katherine Yelick (UCB PI), Aydın Buluç (UCB Co-PI)
Source: National Science Foundation
Duration: August 1, 2017 – July 30, 2022
Total UCB Funding: $465,000

Recent Prior Projects:

Project: BINOCULARS (Berkeley Institute for Programming Support for Irregular Applications)
Investigators: Katherine Yelick (PI), Costin Iancu (co-PI)
Source of Support: Department of Defense
Location for Project: LBNL
Duration: February 15, 2019 - June 30, 2020
Total Funding: $1,000,000

Project: GASNet
Investigators: Katherine Yelick (PI), Paul Hargrove (co-PI)
Source of Support: Department of Defense
Location for Project: LBNL
Duration: February 12, 2019 – January 31, 2020
Total Funding: $200,000

Project: Feature discovery through large-scale unsupervised deep learning: a pilot study for suicide prevention using MVP data collection
Investigators: Katherine Yelick (PI), Silvia Crivelli and J. Ben Brown (Senior Personnel)
Source of Support: Department of Energy via Brookhaven National Laboratory

Location for Project: LBNL
Duration: January 26, 2018 – December 31, 2018
Total Funding: $63,000

Project: BINOCULARS
Investigators: Katherine Yelick (PI), Costin Iancu (co-PI)
Source of Support: Department of Defense
Location for Project: LBNL
Duration: December 1, 2017 - October 31, 2018
Total Funding: $1,000,000

Project: GASNet
Investigators: Katherine Yelick (PI), Paul Hargrove (co-PI)
Source of Support: Department of Defense
Location for Project: LBNL
Duration: December 1, 2017 - October 31, 2018
Total Funding: $400,000

Project: BINOCULARS
Investigators: Katherine Yelick (PI), Costin Iancu (co-PI)
Source of Support: Department of Defense
Location for Project: LBNL
Duration: December 22, 2016 - October 31 2017
Total Funding: $500,000

Project: BINOCULARS + AMD
Investigators: Katherine Yelick (PI), Jonathan Carter (co-PI)
Source of Support: Department of Defense
Location for Project: LBNL
Duration: July 18, 2016 – September 30, 2017
Total Funding: $2,000,000 (including subcontracts)

Project: BINOCULARS
Investigators: Katherine Yelick (PI), Costin Iancu (co-PI)
Source of Support: Department of Defense
Location for Project: LBNL
Duration: November 2015 - October 31 2016
Total Funding: $1,750,000 (including subcontracts)

Project: DEGAS: Dynamic Exascale Global Address Space programming environments
Investigators: K. Yelick (coordinating PI, LBNL)
Source: Department of Energy
Amount: $8,900,500 (at LBNL)
Location of Project: LBNL
Period: September 1, 2012 – August 31, 2016

Project: BINOCULARS
Investigators: Katherine Yelick (PI), Costin Iancu (co-PI)
Source of Support: Department of Defense
Location for Project: LBNL
Duration: October 2014 - December 31, 2015

Total Funding: $1,166,664 (including subcontracts)

Project: BINOCULARS
Investigators: Katherine Yelick (PI), Costin Iancu (co-PI)
Source of Support: Department of Defense
Location for Project: LBNL
Duration: March 2013-February 2014
Total Funding: $1,529,158 (including subcontracts)

Project: BINOCULARS
Investigators: K. Yelick (PI), C. Iancu (Co-PI)
Source: Department of Defense
Amount: $475,000 (including subcontracts)
Location of Project: LBNL
Period: September 1, 2012 – March 31, 2013

Project: BINOCULARS
Investigators: K. Yelick (PI), C. Iancu (Co-PI)
Source: Department of Defense
Amount: $1,721,900 (including subcontracts)
Location of Project: LBNL
Period: April 1, 2011 – September 30, 2012

Project: Center for Programming Models for Scalable Parallel Computing
Investigators: Katherine Yelick (PI)
Source of Support: Department of Energy
Location of Project: U.C. Berkeley
Duration: 9/15/06-9/14/2012
Total Funding: $2,116,480

Project: Center for Scalable-Performance Application Development Software
Investigators: Katherine Yelick (UCB PI), John Mellor-Crummey (Coordinating PI at Rice)
Source of Support: DOE
Location of Project: U.C. Berkeley
Duration: 11/15/2006-11/14/2012
Total Funding: $675,000

Project: CRI:IAD: Development of a Research Infrastructure for the Multithreaded Computing
Community Using the Cray Eldorado Platform
Investigators: Katherine Yelick (UCB PI), Jay Brockman (Lead PI at Notre Dame)
Source of Support: National Science Foundation
Location of Project: U.C. Berkeley
Duration: 8/1/2007-7/1/2013
Total Funding: $50,000

Project: Parallel Laboratory
Investigators: David Patterson (PI), Ras Bodik (co-PI), James Demmel (co-PI), Kurt Keutzer (co-PI),
Koushik Sen (co-PI), Kathy Yelick (co-PI), Krste Asanovic (co-PI)
Source of Support: Intel and Microsoft
Location of Project: UC. Berkeley
Duration: 12/31/07-12/30/12

Total Funding: $6,000,000

Project: Parallel Laboratory
Investigators: David Patterson (PI), Ras Bodik (co-PI), James Demmel (co-PI), Kurt Keutzer (co-PI),
Koushik Sen (co-PI), Kathy Yelick (co-PI), Krste Asanovic (co-PI)
Source of Support: UC Discovery Funds
Location of Project: UC. Berkeley
Duration: 5/01/08-4/30/12
Total Funding: $2,125,000

Project: Unified Parallel C
Investigators: K. Yelick (PI)
Source: Department of Defense
Amount: $1,343,000 (including subcontracts)
Location of Project: LBNL
Period: April 1, 2010 – September 30, 2011

Project: SDCI: IPM – a Performance Monitoring Environment for Petascale HPC
Investigators: Katherine Yelick (UCB PI), Allan Snavely (Lead PI at UCSD)
Source of Support: National Science Foundation
Location of Project: U.C. Berkeley
Duration: 10/01/2007-9/30/2011
Total funding: $753,357

Project: PetaApps: New Coupling Strategies and Capabilities for Petascale Climate Modeling
Investigators: William Collins (UCB PI), Katherine Yelick (co-PI), Jim Kinter (Coordinating PI, COLA),
and others
Source of Support: NSF
Location of Project: UC Berkeley
Duration: 3/01/2008-2/28/12
Total funding: $391,130

Project: Unified Parallel C on Scalable Shared Memory
Investigators: K. Yelick (PI)
Source: Department of Defense
Amount: $1,002,663 (including subcontracts)
Location of Project: LBNL
Period: July 28, 2010 – September 30, 2011

Project: Applications and Runtime Systems Using Fast One-Sided Communication
Investigators: Katherine Yelick
Source of Support: DOE
Annual Amount: $530,000
Location of Project: LBNL
Period: October 1, 2010 – September 30, 2011

Dr. Alon Kaufman
Co-founder and CEO

Dr. Kaufman has 15 years of experience in the hi-tech arena, commercializing data-science technologies, leading industrial research and corporate innovation teams. Prior to founding Duality he served as RSA's global director of Data Science & Innovation.

Ms. Rina Shainski
Co-founder and Chairwoman

Prior to co-founding Duality, Rina was a general partner of Carmel Ventures (now Viola VC) since 2000, leading investments and serving on the boards of hi-tech companies in a variety of IT areas, including mobility, cyber and digital media.

Prof. Shafi Goldwasser
Co-founder and Chief Scientist

Prof. Goldwasser is the inventor of several revolutionary cryptographic technologies, including probabilistic encryption, multi-party secure protocols and pseudo-random functions. She was awarded the ACM Turing Award in 2012 for "for transformative work."

Dr. Kurt Rohloff
Co-founder and CTO

Dr. Rohloff is a co-founder of the PALISADE open-source homomorphic encryption software library and has led the defense industry consortium developing this leading open-source library. He is a co-founder and steering committee member of the HomomorphicEncryption.org industry consortium. He is the recipient of a DARPA

Prof. Vinod Vaikuntanathan
Co-founder and Chief Cryptographer

Prof. Vaikuntanathan is an associate professor of electrical engineering and computer science at MIT. Vinod is the co-inventor of most modern fully homomorphic encryption systems and many other lattice-based (post-quantum secure) cryptographic primitives.

[Duality] ————————————

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Home » Jack Gallant

Jack Gallant

TITLE: Professor

AFFILIATION: Department of Psychology

BACKGROUND:
Jack Gallant is Chancellor's Professor and Class of 1940 Chair at UC Berkeley, and co-Director of the Henry J. Wheeler Brain Imaging Center. His research program focuses on computational modeling and high-dimensional, high-resolution imaging of the human brain under naturalistic conditions. As part of that work, his lab has created the most accurate brain decoding algorithms available today. He is actively involved in neuroethics and the potential implications of future neurotechnology for privacy, agency and the sense of self. He regularly gives presentations on implications of neuroscience and neurotechnology in the law to the National Academy of Sciences and to Circuit Courts. Jack Gallant is affiliated with the departments of Psychology and Electrical Engineering and Computer Science, along with the programs in Bioengineering, Biophysics, Neuroscience and Vision Science. He received his Ph.D. from Yale University and did postdoctoral work at the California Institute of Technology and Washington University Medical School.
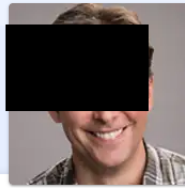
ROLE: Steering Committee

CONTACT
gallant@berkeley.edu ✉

Website ⬈

👤 PERSON

John DeNero

Summary

📄 Overview ✏️

Number of Founded Organizations
1

CB Rank (Person)
117,746

Primary Job Title
Co-Founder & Chief Scientist

Primary Organization
📷 Lilt

Location
Berkeley, California, United States

Regions
San Francisco Bay Area, West Coast, Western US

Gender
Male

LinkedIn
View on LinkedIn ⧉

John DeNero. He is also Assistant Professor of Computer Science at UC Berkeley. Before that he was a research scientist at Google working on Translate.. He received a PhD in Computer Science from UC Berkeley in 2010 under the direction of Dan Klein.

Industry experience

Technical consulting

- Uber, mapping, routing, and mobility systems design, 2018-2019
- Waze / Google, shared mobility services, 2018
- Olivier Wyman, autonomous mobility solutions / infrastructure development for smartcities, 2016-2017
- Kayrros, data science and methodologies for VMT accounting at various spatio-temporal scales, 2016
- Nokia development of IP for location based services (transportation, health, mobility), Jan. 2012 - Sep. 2012
- BAE Systems, development of a tracking system for UAV-based reconstruction of ground traffic, Oct. 2010 - Dec. 2011
- NAVTEQ, development of traffic flow estimation tools for probe-based monitoring systems, June 2009 - Dec. 2010

Expert witness

- Google vs. Traffic Information LLC, 2010 - 2012
  Patent US 6,466,862, Case No. 3:09-cv-00642-HU.
  Role: Technical expert for plaintiff, hired by Perkins Coie LLP

- Core Wireless Licensing S.A.R.L. vs. Samsung L.G., 2015
  Patent US 7,072,667, Case No. 2:14-cv-911-JRG-RSP and 6.14-cv-751. Role: Technical expert for plaintiff, hired by Hueston Hennigan LLP

Entrepreneurship

- Co-founder, Chief Scientist, SafelyYou Inc., 2015 - present