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Research Panel: Wage Discrimination at Universities and Professional Schools

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PETER B. GUSTAVSON School of Business BCom Program

The world looks different from here.

Wage Discrimination in University Professional Schools: Evidence from British Columbia's Business & Law Faculties

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Presentation to the National Center for the Study of
Collective Bargaining in Higher Education and the Professions
45th Annual Conference: April 15-17, 2018
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The BC Professional School Salary Study

- Six British Columbia universities included in the study: University of British Columbia (UBC 55,000 students), Simon Fraser University (SFU 30,000 students), University of Victoria (UVic 31,000 students), University of British Columbia-Okanagan (UBC-O 9,000 students), University of Northern British Columbia (UNBC 3,500 students) and Thompson Rivers University (TRU 8,300 students)
- All six universities have business schools; UBC, UVic and TRU have law schools
- Times Higher Education World Rankings (2017; N = 981 universities):
 UBC 36; SFU 201-250; UVic 301-350); UBC-O (not ranked); UNBC (not ranked); TRU (not ranked)
- Salary data: B.C.'s "Sunshine Law" Financial Information Act, ss. 2(3)(a) and Financial Information Regulation, s. 6 total annual remuneration for university employees (earning above \$75K) must be reported
- Individual employee data obtained from university websites and other internet sources such as LinkedIn and Research Gate

The BC Professional School Salary Study - Variables

- Dependent variables:
- i) Salary ("includes any form of salary, wages, bonuses, gratuities, taxable benefits" as per the *Financial Information Act*); ii) Natural log of Salary
- Note: Salary data reported in 2016 calendar year (2014-15 fiscal year) most recent data available
- Independent variables (dummy variables):
- i) Institution (UBC, SFU, UVic, UBC-O, UNBC and TRU)
- ii) Academic Administrator (Dean, Associate Dean, Assistant Dean and Director/Chair)
- iii) Academic Rank (Full Professor, Associate Professor, Assistant Professor and Instructor) *Note*: sessional instructors excluded from the study
- iv) Business or Law School (Business: N= 351; Law: N=99)
- v) Female faculty member (35.1% of the total faculty complement)
- vi) Member of visible minority (21.8% of the total faculty complement)
- vii) Interaction term (female x visible minority)
- viii) Highest degree (Doctorate, Master and Bachelor)

nale

1.11

1.01

1.13

1.01

1.25

\$152,596

(N=99)

\$205,539

(N=138)

\$166,975

(N=108)

\$133,669

(N=91)

\$128,478

(N=113)

Mean Salary -

Mean Salary -

Mean Salary -

Mean Salary -

Asst. Professor

Mean Salary -

Instructor

https://thekeep.eiu.edu/jcba/volo/iss13/12

Assoc. Professor

Professor

Law

Mean Salary: Descriptive Statistics (N=450)

\$160,562

(N=49)

\$206,029

(N=106)

\$175,031

(N=66)

\$134,399

(N=53)

\$139,967

(N=67)

\$144,789

(N=50)

\$203,914

(N=32)

\$154,315

(N=42)

\$132,652

(N=38)

\$111,744

(N=46)

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	Overall	Male (N=292)	Female (N=158)	Male/Fem Ratio
Mean Salary	\$162,306	\$170,720	\$146,757	1.16
Mean Salary – Business	\$165,045 (N=351)	\$172,769 (N=243)	\$147,667 (N=108)	1.17

1.24

1.08

1.10

1.10

1.19

1.13

Mean Salary: Descriptive Statistics continued (N=450)

•			,
Overall	Male (N=292)	Female (N=158)	Male/Female Ratio

\$207,372

(N=126)

\$152,578

(N=63)

\$145,075

(N=43)

\$152,940

(N=10)

\$138,562

(N=8)

\$124,595

(N=42)

\$167,190

(N=69)

\$141,356

(N=29)

\$131,712

(N=35)

\$138,611

(N=6)

\$116,906

(N=3)

\$109,969

(N=16)

\$193,154

(N=195)

\$149,040

(N=92)

\$139,083

(N=78)

\$147,566

(N=16)

\$132,656

(N=11)

\$120,560

(N=58)

Mean Salary -

Mean Salary –

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UBC

SFU

UVic

UBC-O

UNBC

1.16

0.94

1.30

1.02

1.48

1.11

1.29

\$158,226

\$200,845

(N=18)

\$163,674

(N=33)

\$135,798

(N=28)

\$141,137

(N=19)

\$162,149

(N=87)

\$127,194

(N=11)

Member of a Visible

Visible Minority –

Business School

Visible Minority –

https://thekeep.eiu.edu/jcba/volo/iss13/12

Asst. Professor

Associate Professor

Minority

Professor

Instructor

Mean Salary: Descriptive Statistics continued

\$166,650

\$196,763

(N=12)

\$178,500

(N=21)

\$137,154

(N=15)

\$154,667

(N=14)

\$167,910

(N=58)

\$148,378

(N=4)

\$143,716

\$209,009

(N=6)

\$137,727

(N=12)

\$134,234

(N=13)

\$104,393

(N=5)

\$150,626

(N=29)

\$115,090

(N=7)

Overall	Male	Female	Male/
(N=98)	(N=62)	(N=36)	Female
			Ratio

Variable

OLS Regression Results (N = 450)

323 1 (39)		100)
Independent	Dependent	Dependent

Variable

Institution – UBC-Okanagan

Admin – Associate Dean

Rank - Assoc. Professor

Rank – Assistant Professor

Admin – Assistant Dean

Rank – Full Professor

Institution – UBC

Institution – SFU

Institution – UVic

Institution – UNBC

Admin – Dean

*In*Salary (p-value)

Variable =

Salary (p-value)

64,855.71 (0.00000)

8,247.61 (0.30661)

6,931.43 (0.38618)

6,530.73 (0.61262)

3,084.99 (0.83696)

75,142.87 (0.00000)

43,525.02 (0.00000)

23,078.62 (0.00810)

0.07944 (0.07061)

0.31833 (0.00001)

0.24830 (0.00003) 0.05259 (0.52254) 0.45303 (0.00000)

0.29375 (0.00000)

0.14767 (0.00204)

0.38075 (0.00000)

0.09959 (0.02474)

0.11277 (0.11143) 10,066.56 (0.49935) 0.09185 (0.26136) 59,483.87 (0.00000) 47,873.18 (0.00000)

OLS Regression Results continued (N = 450)

Independent Variable	Dependent Variable = Salary (p-value)	Dependent Variable = <i>In</i> Salary (p-value)

0.13047 (0.00037) 26,253.20 (0.00009) **Business School**

-10,426.07 (0.04677)

-0.06441 (0.02522) **Female Faculty Member** 0.01704 (0.63438)

Professor – Visible Minority 2,538.22 (0.69755)

-8,757.44 (0.41242) Female x Visible Minority -0.05792 (0.32313)

Highest Degree – Doctorate 5,464.55 (0.60966)

0.07917 (0.17788) -969.49 (0.91426) Highest Degree – Masters 0.05465 (0.26963)

R²/Adjusted R² 0.52744/0.50885 0.55003/0.53232 31.06271 (0.00000) 28.36330 (0.00000) F value

Reference categories: TRU (Institution); Chair/Director (Administrative position); Instructor (Rank); Law School (versus Business School); Bachelor Degree (Highest https://thekeep.eiu.edu/jcba/volo/iss13/12 Degree)

Wage Discrimination in B.C. University Business & Law Schools: Conclusion & Discussion Points

- According to Statistics Canada, in 2017, 40.2% of all full-time academic teaching staff were women; in this study, 35.1% of the faculty members were women
- In this study, and across all of the universities, faculties, administrative positions and ranks included in the study, the mean male/female wage gap is approximately 16%
- There is a comparatively modest male/female mean salary differential when comparing full professors and assistant professors (about 1% in favour of male faculty members)
- The female wage gap falls to approximately 6.5% when there are controls for university, faculty, administrative position, rank, race and degree (the gap is approximately 7.7% in an equation that excludes controls for race and degree)

Wage Discrimination in B.C. University Business & Law Schools: Conclusion & Discussion Points continued

- The largest mean salary gap 24% was at UBC. What might account for this comparatively larger gap?
- When an interaction term (Female x UBC) was included in the equation, this variable indicated a significant 14% adverse gender effect and the "Female" variable, although still negative (albeit very small – 2/10ths of 1%), was no longer significant.
- The results of this study are largely consistent with those reported in the AUUP 2016-17 salary study, "Visualizing Change" (overall, a 6% to 9% male salary wage gap depending on rank)
- The results suggest that there is no discrimination by race

Wage Discrimination in B.C. University Business & Law Schools: Conclusion & Discussion Points continued

- However, although not statistically significant (p = .32; Quaere: Is that even relevant when reporting population data?), the coefficient for the "Female x Visible Minority" interaction variable is negative and suggests there is a 6% wage gap for visible minority women (N=36); Note also the mean salary differences as between minority men and women at the associate professor/instructor ranks (30% and 48% gaps, respectively) and for mean business and law faculty salaries (12% and 29%, respectively)
- Business school faculty salaries are approximately 13% higher than law school salaries (women constituted slightly more than 50% of all law school faculty members but only 30.8% of business school faculty members)
- There is an 11% mean salary gap as between male and female law faculty members and a 17% mean salary gap as between male and female by The Keep 2018 siness school faculty members