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Foregone and forethought

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REFERENCES

- Aarts, H., Gollwitzer, P.M. & Hassin, R.R. (2004). Goal contagion: Perceiving is for pursuing, *Journal of Personality and Social Psychology*, *87*, 23-37.
- Abraham, C., & Sheeran, P. (2003) Acting on intentions: The role of anticipated regret. *British Journal of Social Psychology*, *42*, 495-511.
- Achtziger, A., & Gollwitzer, P. (2007). Rubicon model of action phases. In R. F. Baumeister, & K. D. Vohs (Eds.), *Encyclopedia of social psychology* (Vol. 2, pp. 769-771). Thousand Oaks, CA: Sage.
- Ainslie, G. (1992). *Picoeconomics: The strategic interaction of successive motivational states within the person*. Cambridge, England: Cambridge University Press.
- Ajzen, I., & Fishbein, M. (2000). Attitudes and the attitude-behavior relation: Reasoned and automatic processes. In W. Stroebe & M. Hewstone (Eds.), *European Review of Social Psychology* (pp. 1-33). John Wiley & Sons.
- Albarracín, D., & Wyer, R. S. (2000). The cognitive impact on past behavior: Influences on beliefs, attitudes and future behavioral decisions. *Journal of Personality and Social Psychology*, *79*(1), 5-22. doi:10.1037/0022-3514.79.1.5
- Ariely, D., & Wertenbroch, K. (2002). Procrastination, Deadlines, and Performance: Self-Control by Precommitment. *Psychological Science*, *13*(3), 219-224. DOI: 10.1111/1467-9280.00441
- Bagozzi, R. P., Moore, D. J., & Leone, L. (2004). Self-control and the self-regulation of dieting decisions: The role of prefactual attitudes, subjective norms, and resistance to temptation. *Basic and Applied Social Psychology*, *26*, 199-213.
- Bandura, A. (1977). Self-efficacy: toward a unifying theory of behavioral change. *Psychological Review*, *84*(2), 191-215.
- Bandura, A. (1986). *Social foundations of thought and action: A social cognitive theory*. Englewood Cliffs, NJ: Prentice-Hall.
- Bandura, A. (1991). Social Cognitive Theory of Self-Regulation. *Organizational Behavior and Human Decision Processes*, *50*, 248-287.
- Bandura, A. (1997). *Self-efficacy: The exercise of control*. New York: Freeman.
- Bandura, A., & Simon, K. M. (1977). The role of proximal intentions in self-regulation of refractory behavior. *Cognitive Therapy and Research*, *1*, 177-193.
- Bargh, J. A., & Chartrand, T. L. (1999). The unbearable automaticity of being. *American Psychologist*, *54*, 462-479.
- Bargh, J. A., & Ferguson, M. J. (2000). Beyond behaviorism: on the automaticity of higher mental processes. *Psychological Bulletin*, *126*: 925-45.
- Baron, S. W. (2003). Self-control, social consequences, and criminal behavior: Street youth and the general theory of crime. *Journal of Research in Crime and Delinquency*, *40*(4), 403-425.

- Battaglini, M., Bénabou, R., & Tirole, J. (2005). Self-control in peer groups. *Journal of Economic Theory*, 123(2), 105–134, <http://doi.org/10.1016/j.jet.2005.04.001>.
- Baumeister, R. F. (2002). Yielding to Temptation: Self-Control Failure, Impulsive Purchasing, and Consumer Behavior. *Journal of Consumer Research*, 28(4), 670–676. <http://doi.org/10.1086/338209>
- Baumeister, R. F., & Exline, J. J. (2000). Self-Control, Morality, and Human Strength. *Journal of Social and Clinical Psychology*, 19(1), 29–42.
- Baumeister, R. F., & Tierney, J. (2011). *Willpower: Rediscovering the greatest human strength*. New York, NY: Penguin.
- Baumeister, R. F., Bratslavsky, E., Muraven, M., & Tice, D. M. (1998). Ego depletion: is the active self a limited resource? *Journal of Personality and Social Psychology*, 74(5), 1252–1265.
- Baumeister, R. F., Heatherton, T. F., & Tice, D. M. (1994). *Losing control: How and why people fail at self-regulation*. San Diego, CA: Academic Press.
- Baumeister, R. F., Vohs, K. D., & Tice, D. M. (2007). The Strength Model of Self-Control. *Current Directions in Psychological Science*, 16(6), 351–355.
- Baumeister, R.F., & Heatherton, T.F. (1996). Self-regulation failure: An overview. *Psychological Inquiry*, 7, 1–15.
- Baumeister, R.F., Gailliot, M., DeWall, C.N., & Oaten, M. (2006). Self-regulation and personality: How interventions increase regulatory success, and how depletion moderates the effects of traits on behavior. *Journal of Personality*, 74, 1773–1801.
- Bem, D. J. (1972). Self-perception theory. In L. Berkowitz (Ed.), *Advances in Experimental Social Psychology* (Vol. 6, pp. 1-62). New York: Academic Press.
- Berinsky, A. J., Huber, G. A., & Lenz, G. S. (2012). Evaluating online labor markets for experimental research: Amazon.com's Mechanical Turk. *Political Analysis*, 20, 351–368.
- Bless, H. & Burger, A. M. (2016). A Closer Look at Social Psychologists' Silver Bullet: Inevitable and Evitable Side Effects of the Experimental Approach. *Perspectives on Psychological Science*, 11(2), 296-308.
- Bolger, N., & Laurenceau, J. P. (2013). *Intensive Longitudinal Methods: An Introduction to Diary and Experience Sampling Research*. New York: Guilford.
- Brandtstädter, J. & Renner, G. (1990). Tenacious goal pursuit and flexible goal adjustment: Explication and age-related analysis of assimilative and accommodative strategies of coping. *Psychology and Aging*, 5, 58-67.
- Brendl, C. M., Markman, A. B., & Messner, C. (2003). Devaluation of Goal-Unrelated Choice Options. *Journal of Consumer Research*, 29, 463–73.
- Brickman, P., Linsenmeier, J. A., & McCareins, A. G. (1976). Performance enhancement by relevant success and irrelevant failure. *Journal of Personality and Social Psychology*, 33(2), 149-160. DOI: 10.1037/0022-3514.33.2.149
- Buhrmester, M., Kwang, T., & Gosling, S.D. (2011). Amazon's Mechanical Turk: A new source of cheap, yet high-quality, data?. *Perspectives on Psychological Science*, 6, 3-5.

Carver, C. S., & Scheier, M. F. (1981). *Attention and Self-Regulation: A Control Theory Approach to Human Behavior*. New York, NY: Springer.

Carver, C. S., & Scheier, M. F. (1990). Origins and functions of positive and negative affect: A control-process view. *Psychological Review*, *97*(1), 19–35.

Carver, C. S., & Scheier, M. F. (1998). *On the self-regulation of behavior*. New York: Cambridge University Press.

Cialdini, R. B., Trost, M. R., & Newsom, J. T. (1995). Preference for consistency: The development of a valid measure and the discovery of surprising behavioral implications. *Journal of Personality and Social Psychology*, *69*, 318–328.

Cochran, W. & Tesser, A. (1996). The ‘What the Hell’ effect: Some effects of goal proximity and goal framing on performance. LL. Martin & A. Tesser (Eds.). *Striving and Feeling: Interactions among Goals, Affect, and Self-Regulation* (pp. 99-120). New Jersey: Erlbaum, 99-120.

Creswell, J. W. (2013). *Qualitative inquiry and research design: Choosing among five approaches*. (3rd ed.). Thousand Oaks, CA: Sage.

de Witt Huberts, J. C., Evers, C., & de Ridder, D. T. D. (2012). License to sin: Self-licensing as a mechanism underlying hedonic consumption. *European Journal of Social Psychology*, *42*(4), 490–496, <http://dx.doi.org/10.1002/ejsp.861>.

Deci, E. L., & Ryan, R. M. (1985). *Intrinsic motivation and self-determination in human behavior*. New York, NY: Plenum

Dhar, R., & Simonson, I. (1999). Making Complementary Choices in Consumption Episodes: Highlighting Versus Balancing. *Journal of Marketing Research*, *36*, 29–44.

Dhar, R., & Wertenbroch, K. (2012). Self-Signaling and the Costs and Benefits of Temptation in Consumer Choice. *Journal of Marketing Research*, *49*(1), 15–25, <http://dx.doi.org/10.1509/jmr.10.0490>.

Dhar, R., Huber, J., & Khan, U. (2007). The shopping momentum effect. *Journal of Marketing Research*, *44*, 370–378.

Dholakia, U. M., Gopinath, M., & Bagozzi, R. P. (2005). The role of desires in sequential impulsive choices. *Organizational Behavior and Human Decision Processes*, *98*(2), 179-194.

Duckworth, A. L., & Carlson, S. M. (2013). Self-regulation and school success. In B.W. Sokol, F.M.E. Grouzet, & U. Müller (Eds.), *Self-regulation and autonomy: Social and developmental dimensions of human conduct* (pp. 208-230). New York, NY: Cambridge University Press.

Duckworth, A. L., & Seligman, M. E. P. (2005). Self-discipline outdoes IQ in predicting academic performance of adolescents. *Psychological Science*, *16*, 939–944.

Duckworth, A.L., & Gross, J.J. (2014). Self-control and grit: Related but separable determinants of success. *Current Directions in Psychological Science*, *23*(5), 319-325.

Duval, T. S., & Wicklund, R. A. (1972). *A theory of objective self-awareness*. New York: Academic Press.

- Effron, D. A., Monin, B., & Miller, D. T. (2013). The unhealthy road not taken: Licensing indulgence by exaggerating counterfactual sins. *Journal of Experimental Social Psychology*, 49(3), 573–578, <http://doi.org/10.1016/j.jesp.2012.08.012>.
- Eisenberg, N., Valiente, C., Spinrad, T. L., Cumberland, A., Liew, J., Reiser, M., . . . Losoya, S. H. (2009). Longitudinal relations of children's effortful control, impulsivity, and negative emotionality to their externalizing, internalizing, and co-occurring behavior problems. *Developmental Psychology*, 45, 988–1008.
- Epstude, K. (2017). Counterfactual thinking. In G. Oettingen, T. Sevincer, & P. M. Gollwitzer (Eds.), *The psychology of thinking about the future*. New York, NY: Guilford Press.
- Epstude, K., & Roese, N. J. (2008). The functional theory of counterfactual thinking. *Personality and Social Psychology Review*, 12(2), 168–192. <http://doi.org/10.1177/1088868308316091>.
- Epstude, K., & Roese, N. J. (2011). When goal pursuit fails: The functions of counterfactual thought in intention formation. *Social Psychology*, 42(1), 19–27. DOI: 10.1027/1864-9335/a000039
- Epstude, K., Scholl, A., & Roese, N. J. (2016). Prefactual thoughts: Mental simulations about what might happen. *Review of General Psychology*, 20(1 (Special issue: The Science of Prospection)), 48–56. DOI: 10.1037/gpr0000064, <http://dx.doi.org/10.1037/gpr0000064>
- Etz, A. & Vandekerckhove, J. (2016). A Bayesian perspective on the Reproducibility Project: Psychology. *PLoS ONE* 11(2): e0149794. DOI: 10.1371/journal.pone.0149794.
- Exception (2016). In *dictionary.cambridge.com*. Retrieved from <http://dictionary.cambridge.org/dictionary/english/exception>
- Festinger, L. (1957). *A theory of cognitive dissonance*. Oxford England: Row, Peterson.
- Finkelstein, S. R., & Fishbach, A. (2012). Tell me what I did wrong: experts seek and respond to negative feedback. *Journal of Consumer Research*, 39, 22–38.
- Fishbach, A. & Dhar, R., (2007). Dynamics of goal-based choice. In C. P. Haugtvedt, P. M. Herr & F. R. Kardes (Eds.), *Handbook of Consumer Psychology*, (pp. 611–637), NY: Psychology Press.
- Fishbach, A. (2009). The Dynamics of Self-Regulation. In *The 11th Sydney Symposium of Social Psychology* (pp. 1–33). New York: Psychology Press.
- Fishbach, A., & Converse, B. A. (2010). Identifying and battling temptation. In K. D. Vohs, & R. F. Baumeister (Eds.), *Handbook of Self-Regulation: Research, Theory and Applications* (2nd edition; pp. 244–260). New York: Guilford.
- Fishbach, A., & Converse, B. A. (2010). Walking the Line between Goals and Temptations: Asymmetric Effects of Counteractive Control. In R. R. Hassin, K. Ochsner, & Y. Trope (Eds.), *Self Control in Society, Mind, and Brain* (pp. 389–407). New York, NY: Oxford University Press, <http://doi.org/doi:10.1093/acprof:oso/9780195391381.003.0021>.
- Fishbach, A., & Dhar, R. (2005). Goals as Excuses or Guides: The Liberating Effect of Perceived Goal Progress on Choice. *Journal of Consumer Research*, 32(3), 370–377, <http://doi.org/10.1086/497548>.

Fishbach, A., & Finkelstein, S. R. (2012). How Feedback Influences Persistence, Disengagement, and Change in Goal Pursuit. In H. Aarts & A. J. Elliot (Eds.), *Goal-directed behavior* (pp. 203–230). New York: Psychology Press.

Fishbach, A., & Labroo, A. A. (2007). Be Better or Be Merry: How Mood Affects Self-Control. *Journal of Personality and Social Psychology*, *93*, 158–173.

Fishbach, A., & Shaddy, F. (2016). When choices substitute for versus reinforce each other. *Current Opinion in Psychology*, *10*, 39–43.

Fishbach, A., & Shah, J. Y. (2006). Self-Control in Action: Implicit Dispositions toward Goals and Away from Temptations. *Journal of Personality and Social Psychology*, *90*, 820–832.

Fishbach, A., & Shen, L. (2014). The explicit and implicit ways of overcoming temptation. In Sherman, J. W., Gawronski, B., & Trope, Y. (Eds.), *Dual Process Theories of the Social Mind* (pp. 454–467). New York: Guilford Press.

Fishbach, A., & Trope, Y. (2005). The Substitutability of External Control and Self-Control in Overcoming Temptation. *Journal of Experimental Social Psychology*, *41*, 256–270.

Fishbach, A., & Trope, Y. (2005). The substitutability of external control and self-control. *Journal of Experimental Social Psychology*, *41*(3), 256–270, <http://doi.org/10.1016/j.jesp.2004.07.002>.

Fishbach, A., & Trope, Y. (2007). Implicit and explicit mechanisms of counteractive self-control. In J. Y. Shah & W. Gardner (Eds.), *Handbook of motivation science* (pp. 281–294). New York: Guilford.

Fishbach, A., & Zhang, Y. (2007). The Dynamics of Self-Regulation: When Goals Commit Versus Liberate. In M. Wänke, A. W. Kruglanski, & J. P. Forgas (Eds.), *The Social Psychology of Consumer Behavior* (pp. 1–39). New York: Psychology Press.

Fishbach, A., & Zhang, Y. (2008). Together or apart: When goals and temptations complement versus compete. *Journal of Personality and Social Psychology*, *94*(4), 547–559, <http://doi.org/10.1037/0022-3514.94.4.547>.

Fishbach, A., Dhar, R., & Zhang, Y. (2006). Subgoals as substitutes or complements: The role of goal accessibility. *Journal of Personality and Social Psychology*, *91*(2), 232–242, <http://doi.org/10.1037/0022-3514.91.2.232>.

Fishbach, A., Eyal, T. & Finkelstein, S. R. (2010). How Positive and Negative Feedback Motivate Goal Pursuit. *Social and Personality Psychology Compass*, *4*(8), 517–530. doi:10.1111/j.1751-9004.2010.00285.x

Fishbach, A., Friedman, R. S., & Kruglanski, A. W. (2003). Leading us not unto temptation: Momentary allurements elicit overriding goal activation. *Journal of Personality and Social Psychology*, *84*, 296–309.

Fishbach, A., Koo, M., & Finkelstein, S. R. (2014). Motivation Resulting from Completed and Missing Actions. In J. Olson & M. P. Zanna (Eds.). *Advances in experimental social psychology*, *50*(pp. 257–307), Elsevier.

Fishbach, A., Zhang, Y., & Koo, M. (2009). The dynamics of self-regulation. *European Review of Social Psychology*, *20*(1), 315–344.

- Fishbach, A., Zhang, Y., & Trope, Y. (2009). Counteractive evaluation: Asymmetric shifts in the implicit value of conflicting motivations. *Journal of Experimental Social Psychology*, 1–10.
- Fishbein, M., & Ajzen, I. (1974). Attitudes towards objects as predictors of single and multiple behavioral criteria. *Psychological Review*, 81, 29–74.
- Förster, J., Grant, H., Idson, L. C., & Higgins, E. T. (2001). Success/failure feedback, expectancies, and approach/avoidance motivation: How regulatory focus moderates classic relations. *Journal of Experimental Social Psychology*, 37, 253–260.
- Förster, J., Higgins, E. T., & Idson, L. C. (1998). Approach and avoidance strength during goal attainment: Regulatory focus and the “goal looms larger” effect. *Journal of Personality and Social Psychology*, 75, 1015–1031.
- Fox, J. (1991). *Regression Diagnostics: An Introduction*. Newbury Park, CA: Sage Publications.
- Frese, M. & Keith, N. (2015). Action errors, error management, and learning in organizations. *Annual Review of Psychology*, 66, 661–687.
- Frese, M. & Zapf, D. (1994). Action as the core of work psychology: A German approach. In H. C. Triandis, M. D. Dunnette & L. M. Hough (Eds.), *Handbook of industrial and organizational psychology, Volume 4* (pp. 271–340). Palo Alto: Consulting Psychologists Press.
- Friese, M., & Hofmann, W. (2009). Control me or I will control you: Impulses, trait self-control, and the guidance of behavior. *Journal of Research in Personality*, 43(5), 795–805.
- Fujita, K., Trope, Y., Liberman, N., & Levin-Sagi, M. (2006). Construal levels and self-control. *Journal of Personality and Social Psychology*, 90(3), 351–367.
- Goleman, D. (2013, December). The focused leader. *Harvard Business Review*, 91, 51–60.
- Gollwitzer, P. M. (1987). Suchen, Finden und Festigen der eigenen Identität: Unstillbare Zielintentionen. In H. Heckhausen, P. M. Gollwitzer & F. E. Weinert (Hrsg.), *Jenseits des Rubikon: Der Wille in den Humanwissenschaften* (S. 176–189). Heidelberg: Springer-Verlag.
- Gollwitzer, P. M. (1990). Action phases and mind-sets. In E. T. Higgins & R. M. Sorrentino (Eds.), *The handbook of motivation and cognition: Foundations of social behavior* (Vol. 2, pp. 53–92). New York: Guilford Press.
- Gollwitzer, P. M. (1993). Goal achievement: The role of intentions. *European Review of Social Psychology*, 4, 141–185.
- Gollwitzer, P. M., & Sheeran, P. (2006). Implementation intentions and goal achievement: A meta-analysis of effects and processes. *Advances in Experimental Social Psychology*, 38, 69–119.
- Gollwitzer, P. M., Bayer, U. C., & McCulloch, K. C. (2005). The control of the unwanted. In R. R. Hassin, J. S. Uleman, & J. A. Bargh (Eds.), *The new unconscious* (pp. 485–516). Oxford, UK: Oxford University Press.
- Gollwitzer, P.M., Wicklund, R.A., & Hilton, J.L. (1982). Admission of failure and symbolic self-completion: Extending Lewinian theory. *Journal of Personality and Social Psychology*, 43, 358–371.

- Goodman, J. K., Cryder, C. E., & Cheema, A. (2012). Data collection in a flat world: The strengths and weaknesses of Mechanical Turk samples. *Journal of Behavioral Decision Making*, 26(3), 213–224. <http://doi.org/10.1002/bdm.1753>.
- Green, H. (2011, April). Leadership: Building Trust Means Better Listening. *Forbes*. Retrieved from <https://www.forbes.com/sites/work-in-progress/2011/04/18/leadership-building-trust-means-better-listening/#323b0ab02356>
- Harmon-Jones, E., Peterson, H., & Vaughn, K. (2003). The dissonance-inducing effects of an inconsistency between experienced empathy and knowledge of past failures to help: Support for the action-based model of dissonance. *Basic and Applied Social Psychology*, 25(1), 69–78. doi:10.1207/S15324834BASP2501_5
- Hayes, A. F. (2012). PROCESS: A versatile computational tool for observed variable mediation, moderation, and conditional process modeling. White Paper available at: <http://www.afhayes.com/public/process2012.pdf>
- Hayes, A. F. (2013). *Introduction to Mediation, Moderation, and Conditional Process Analysis: A Regression-Based Approach*. New York, NY: The Guilford Press.
- Heath, C., Larrick, R. P., & Wu, G. (1999). Goals as reference points. *Cognitive Psychology*, 38, 79–109.
- Heckhausen H., & Gollwitzer P.M. (1987). Thought contents and cognitive functioning in motivational versus volitional states of mind. *Motivation and Emotion*, 11, 101-120. DOI: 10.1007/BF00992338
- Heckhausen, H. (1987). Perspektiven einer Psychologie des Wollens. In H. Heckhausen, P.M. Gollwitzer, F.E. Weinert (Hrsg.), *Jenseits des Rubikon: Der Wille in den Humanwissenschaften* (S. 121-142). Berlin: Springer.
- Heckhausen, H. (1991). *Motivation and action*. New York: Springer-Verlag.
- Heckhausen, H., & Gollwitzer, P. M. (1986). Information processing before and after the formation of an intent. In F. Klix & H. Hagendorf (Eds.), *In memoriam Hermann Ebbinghaus: Symposium on the structure and function of human memory* (pp. 1071-1082). Amsterdam: Elsevier/North Holland.
- Heckhausen, H., & Gollwitzer, P.M. (1987). Thought contents and cognitive functioning in motivational versus volitional states of mind. *Motivation and Emotion*, 11(2), 101- 120.
- Herman, C. P., & Mack, D. (1975). Restrained and unrestrained eating. *Journal of Personality*, 43, 647–660.
- Herman, C. P., & Polivy, J. (1984). A boundary model for the regulation of eating. *Psychiatric Annals*, 13, 918–927.
- Higgins, E. T. (1987). Self-Discrepancy: A Theory Relating Self and Affect. *Psychological Review*, 94(3), 319–340.
- Higgins, E. T. (1996). Knowledge activation: Accessibility, applicability, and salience. In E. T. Higgins & A. W. Kruglanski (Eds.), *Social psychology: Handbook of basic principles* (133-168). New York: The Guilford Press.

- Higgins, E. T. (2006). Value from hedonic experience and engagement. *Psychological Review*, 113(3), 439–460, <http://doi.org/10.1037/0033-295X.113.3.439>.
- Hoch, S., & Loewenstein, G. (1991). Time-Inconsistent Preferences and Consumer Self-Control. *Journal of Consumer Research*, 17, 492-507.
- Inzlicht, M., & Schmeichel, B. J. (2012). What Is Ego Depletion? Toward a Mechanistic Revision of the Resource Model of Self-Control. *Perspectives on Psychological Science*, 7(5), 450–463.
- Inzlicht, M., Schmeichel, B. J., & Macrae, C. N. (2014). Why self-control seems (but may not be) limited. *Trends in Cognitive Sciences*, 1–7.
- Janoff-Bulman, R. (1979). Characterological versus behavioral self-blame: Inquiries into depression and rape. *Journal of Personality and Social Psychology*, 37, 1798-1809.
- Job, V., Dweck, C., & Walton, G. (2010). Ego depletion: Is it all in your head? Implicit theories about willpower affect self-regulation. *Psychological Science*, 21, 1686–1693.
- Joosten, A., Van Dijke, M., Van Hiel, A., & De Cremer, D. (2014). Being “in Control” May Make You Lose Control: The Role of Self-Regulation in Unethical Leadership Behavior. *Journal of Business Ethics*, 121(1), pp. 1-14.
- Joosten, A., Van Dijke, M., Van Hiel, A., & De Cremer, D. (2015). Out of Control!? How Loss of Self-Control Influences Prosocial Behavior: The Role of Power and Moral Values. *PLoS ONE*, 10 (5), e0126377.
- Kahneman, D., & Miller, D. T. (1986). Norm theory: Comparing reality to its alternatives. *Psychological Review*, 93, 136–153.
- Karp, T. (2014). Leaders need to develop their willpower. *Journal of Management Development*, 33(3), 150–163
- Kelley, H. H. (1971). *Attribution in social interaction*. New York, NY: General Learning Press.
- Khan, U., & Dhar, R. (2006). Licensing Effect in Consumer Choice. *Journal of Marketing Research*, 43(2), 259–266, <http://doi.org/10.1509/jmkr.43.2.259>.
- Khan, U., & Dhar, R. (2006). The licensing effect in consumer choice. *Journal of Marketing Research*, 43, 259–266.
- Khan, U., & Dhar, R. (2007). Where There Is a Way, Is There a Will? The Effect of Future Choices on Self-Control. *Journal of Experimental Psychology: General*, 136(2), 277–288.
- Kivetz, R., & Simonson, I. (2002). Self-Control for the Righteous: Toward a Theory of Precommitment to Indulgence. *Journal of Consumer Research*, 29(2), 199–217.
- Koo, M., & Fishbach, A. (2008). Dynamics of Self-Regulation: How (Un)accomplished Goal Actions Affect Motivation. *Journal of Personality and Social Psychology*, 94, 183-195.
- Koo, M., & Fishbach, A. (2010). Climbing the goal ladder: How upcoming actions increase level of aspiration. *Journal of Personality and Social Psychology*, 99, 1-13.
- Koo, M., & Fishbach, A. (2012). The Small-Area Hypothesis: Effects of Progress Monitoring on Goal Adherence. *Journal of Consumer Research*, 39(3), 493–509, <http://doi.org/10.1086/663827>.

- Liberman, N., & Förster, J. (2008). Expectancy, value and psychological distance: A new look at goal gradients. *Social Cognition*, 26, 515–533.
- Linsenmeier, J. A., & Brickman, P. (1978). Advantages of difficult tasks. *Journal of Personality*, 46(1), 96–112. doi:10.1111/j.1467-6494.1978.tb00604.x
- Locke, E. A., & Latham, G. P. (1990). *A theory of goal setting and task performance*. Englewood Cliffs, NJ: Prentice Hall.
- Loewenstein, G. (1996). Out of Control: Visceral Influences on Behavior. *Organizational Behavior and Human Decision Processes*, 65(3), 272-292 . DOI: 10.1006/obhd.1996.0028
- Markus, H., & Nurius, P. (1986). Possible selves. *American Psychologist*, 41(9), 954-969.
- Mazar, N., Amir, O., & Ariely, D. (2008). The Dishonesty of Honest People: A Theory of Self-Concept Maintenance. *Journal of Marketing Research*, 45, 633-644.
- McMullen, M. N., & Markman, K. D. (2000). Downward Counterfactuals and Motivation: The Wake-Up Call and the Pangloss Effect. *Personality and Social Psychology Bulletin*, 26(5), 575–584. <http://doi.org/10.1177/0146167200267005>
- McMullen, M. N., Markman, K. D., & Gavanski, I. (1995). Living in neither the best nor worst of all possible worlds: Antecedents and consequences of upward and downward counterfactual thinking. In N. J. Roese & J. M. Olson (Eds.), *What might have been: The social psychology of counterfactual thinking* (pp. 133–167). Hillsdale, NJ: Erlbaum.
- Mischel W., Ebbesen E.B. (1970). Attention in delay of gratification. *Journal of Personality and Social Psychology*, 16, 329-337.
- Mischel W., Ebbesen E.B., Zeiss A.R. (1972). Cognitive and attentional mechanisms in delay of gratification. *Journal of Personality and Social Psychology*, 21, 204-218.
- Mischel, W. (2014). *The Marshmallow Test: Mastering self-control*. New York, NY: Little, Brown.
- Mischel, W., & Ayduk, O. (2004). Willpower in a cognitive-affective processing system: The dynamics of delay of gratification. In R. Baumeister & K. Vohs (Eds.), *Handbook of Self-Regulation: Research, Theory, and Applications* (pp. 99–129). New York: Guilford.
- Mischel, W., Cantor, N., & Feldman, S. (1996). Principles of self-regulation: The nature of willpower and self-control. In E. T. Higgins & A. W. Kruglanski (Eds.), *Social psychology: Handbook of basic principles* (pp. 329–360). New York: Guilford Press.
- Moffitt, T. E., Arseneault, L., Belsky, D., Dickson, N., Hancox, R. J., Harrington, H. L., . . . Caspi, A. (2011). A gradient of childhood self-control predicts health, wealth, and public safety. *Proceedings of the National Academy of Sciences, USA*, 108, 2693–2698.
- Monin, B., & Miller, D. T. (2001). Moral credentials and the expression of prejudice. *Journal of Personality and Social Psychology*, 81, 33–43.
- Mukhopadhyay, A., & Johar, G. V. (2009). Indulgence as self-reward for prior shopping restraint: A justification-based mechanism. *Journal of Consumer Psychology*, 19(3), 334–45.

- Mukhopadhyay, A., Sengupta, J., & Ramanathan, S. (2008). Recalling past temptations: An information-processing perspective on the dynamics of self-control. *Journal of Consumer Research*, *35*(4), 586–599, <http://doi.org/10.1086/591105>.
- Muraven, M. (2010). Building self-control strength: Practicing self-control leads to improved self-control performance. *Journal of Experimental Social Psychology*, *46*(2), 465–468, <http://doi.org/10.1016/j.jesp.2009.12.011>.
- Muraven, M. R., & Baumeister, R. F. (2000). Self-regulation and depletion of limited resources: Does self-control resemble a muscle? *Psychological Bulletin*, *126*, 247–259.
- Muraven, M., Shmueli, D., & Burkley, E. (2006). Conserving self-control strength. *Journal of Personality and Social Psychology*, *91*(3), 524–537. <http://doi.org/10.1037/0022-3514.91.3.524>
- Muraven, M., Tice, D. M., & Baumeister, R. (1998). Self-control as limited resource: Regulatory depletion patterns. *Journal of Personality and Social Psychology*, *74*, 774–789.
- Myatt, M. (2013). *Hacking Leadership: The 11 Gaps Every Business Needs to Close and the Secrets to Closing Them Quickly*. New York, NY: Wiley.
- Myrseth, K. O. R., & Fishbach, A. (2009). Self-control: a function of knowing when and how to exercise restraint. *Current Directions in Psychological Science*, *18*, 247-252.
- Myrseth, K. O. R., Fishbach, A. & Trope, Y. (2009). Counteractive self-control: When making temptation available makes temptation less tempting. *Psychological Science*, *20*, 159 – 163.
- Nasco, S. A., & Marsh, K. L. (1999). Gaining control through counterfactual thinking. *Personality and Social Psychology Bulletin*, *25*, 556-568.
- Nikolova, H., Lambertson, C., & Haws, K. L. (2016). Haunts or helps from the past: Understanding the effect of recall on current self-control. *Journal of Consumer Psychology*, 1–12, <http://doi.org/doi:10.1016/j.jcps.2015.06.011>.
- Oettingen, G. (2000). Expectancy effects on behavior depend on self-regulatory thought. *Social Cognition*, *18*, 101-129.
- Oettingen, G., & Reininger, K. M. (2016). The power of prospecting: Mental contrasting and behavior change. *Social and Personality Psychology Compass*, *10*, 591-604.
- Oettingen, G., Mayer, D., Sevincer, A.T., Stephens, E.J., Pak, H., & Hagenah, M. (2009). Mental contrasting and goal commitment: The mediating role of energization. *Personality and Social Psychology Bulletin*, *35*, 608- 622.
- Oettingen, G., Pak, H., & Schnetter, K. (2001). Self-regulation of goal setting: Turning free fantasies about the future into binding goals. *Journal of Personality and Social Psychology*, *80*, 736-753.
- Peez, J., Wilson, A. E., & Strahan, E. J. (2009). So far away: The role of subjective temporal distance to future goals in motivation and behavior. *Social Cognition*, *27*, 475-495. <http://dx.doi.org/10.1521/soco.2009.27.4.475>

Petrocelli, J. V., Seta, C. E., & Seta, J. J. (2012). Prefactual potency: The perceived likelihood of alternatives to anticipated realities. *Personality and Social Psychology Bulletin*, 38, 1467-1479.

Pham, L. B. & Taylor, S. E. (1999). From Thought to Action: Effects of Process Versus Outcome-Based Mental Simulations on Performance. *Personality and Social Psychology Bulletin*, 25(2), 250-260.

Polivy, J. & Herman, C. P. (1985). Dieting and bingeing: A causal analysis. *American Psychologist*, 40(2), 193-201. <http://dx.doi.org/10.1037/0003-066X.40.2.193>

Polivy, J., & Herman, C. P. (2002). If at first you don't succeed. False hopes of self-change. *American Psychologist*, 57, 677-689.

Polivy, J., Herman, C. P., & Deo, R. (2010). Getting a bigger slice of the pie. Effects on eating and emotion in restrained and unrestrained eaters. *Appetite*, 55(3), 426-430.

Polivy, J., Herman, C.P. & Coelho, J. (2008). Caloric restriction in the presence of attractive food cues: External cues, eating, and weight. *Physiology & Behavior*, 94, 729-733.

Prelec, D., & Bodner, R. (2003). Self-signaling and self-control. In G. Loewenstein, D. Read, & R. F. Baumeister (Eds.), *Time and Decision*, (pp. 277-298). New York, NY: Sage Press.

Rachlin, H. (2000). *The science of self-control*. Cambridge, MA: Harvard University Press.

Read, D., Loewenstein, G. F., & Kalyanaraman, S. (1999). Mixing virtue and vice: Combining the immediacy effect and the diversification heuristic. *Journal of Behavioral Decision Making*, 12, 257-273.

Read, D., Loewenstein, G., & Rabin, M. (1999). Choice bracketing. *Journal of Risk and Uncertainty*, 19, 171-197.

Roese, N. (1994). The functional basis of counterfactual thinking. *Journal of Personality and Social Psychology*, 66(5), 805-818, <http://dx.doi.org/10.1037/0022-3514.66.5.805>.

Roese, N. J., & Epstude, K. (2017). *The Functional Theory of Counterfactual Thinking: New Evidence, New Challenges, New Insight*. *Advances in Experimental Social Psychology*.

Roese, N. J., & Hur, T. (1997). Affective determinants of counterfactual thinking. *Social Cognition*, 15, 274-290.

Ross M., Wilson A.E. (2002). It feels like yesterday: Self-esteem, valence of personal past experiences, and judgments of subjective distance. *Journal of Personality and Social Psychology*, 82, 792-803.

Roth, S., & Kubal, L. (1975). Effects of noncontingent reinforcement on tasks of differing importance: Facilitation and learned helplessness. *Journal of Personality and Social Psychology*, 32(4), 680-691.

Schacter, D. L., Addis, D. R., & Buckner, R. L. (2008). Episodic simulation of future events: Concepts, data, and applications. *The Year in Cognitive Neuroscience, Annals of the New York Academy of Sciences*, 1124, 39-60.

Scholer, A.A. (2014). When Saying Yes to the Doughnut Is Not Saying No To Self-Control: A Hierarchical Approach to Flexibility in Conflict Representation. In J. Forgas & E. Harmon-

- Jones (Eds.). *The Control Within: Motivation and its Regulation*. (pp. 247-262). New York, NY: Psychology Press.
- Scholl, A., & Sassenberg, K. (2015). Better know when (not) to think twice: How social power impacts prefactual thought. *Personality and Social Psychology Bulletin*, *41*, 159–170.
- Scholl, A., & Sassenberg, K. (2014). Where could we stand if I had...? How social power impacts counterfactual thinking after failure. *Journal of Experimental Social Psychology*, *53*, 51-61.
- Schyns, B., & Schilling, J. (2012). How bad are the effects of bad leaders? A meta-analysis of destructive leadership and its outcomes. *Leadership Quarterly*, *24*, 138-158. doi:10.1016/j.leaqua.2012.09.001
- Shah, J. Y., & Kruglanski, A. W. (2002). Priming against your will: How accessible alternatives affect goal pursuit. *Journal of Experimental Social Psychology*, *38*, 368–383.
- Shah, J. Y., & Kruglanski, A. W. (2003). When opportunity knocks: Bottom-up priming of goals by means and its effects on self-regulation. *Journal of Personality and Social Psychology*, *84*(6), 1109–1122.
- Shah, J. Y., Friedman, R., & Kruglanski, A. W. (2002). Forgetting all else: On the antecedents and consequences of goal shielding., *83*(6), 1261–1280.
- Sheikh, S. & Janoff-Bulman, R. (2010). A self-regulatory perspective on shame and guilt. *Personality and Social Psychology Bulletin*, *36*, 213-224.
- Sheldon, O. J., & Fishbach, A. (2011). Resisting the temptation to compete: Self-control promotes cooperation in mixed-motive interactions. *Journal of Experimental Social Psychology*, *47*, 403-410.
- Sheldon, O. J., & Fishbach, A. (2015). Anticipating and Resisting the Temptation to Behave Unethically. *Personality and Social Psychology Bulletin*, *41*, 962-975.
- Simmons, J.P., Nelson, L.D., & Simonsohn, U. (2011). False-Positive Psychology: Undisclosed Flexibility in Data Collection and Analysis Allows Presenting Anything as Significant. *Psychological Science*, *22*(11), 1359–1366, <http://doi.org/10.1177/0956797611417632>.
- Simonson, I. (1990). The effect of purchase quantity and timing on variety-seeking behavior. *Journal of Marketing Research*, *27*(2), 150–162.
- Smallman, R. (2013). It's what's inside that counts: The role of counterfactual content in intention formation. *Journal of Experimental Social Psychology*, *49*, 842-851. doi: 10.1016/j.jesp.2013.05.004
- Smallman, R., & Roese, N. J. (2009). Counterfactual thinking facilitates behavioral intentions. *Journal of Experimental Social Psychology*, *45*(4), 845-852.
- Soman, D., & Cheema, A. (2004). When goals are counterproductive: The effects of violation of a behavioral goal on subsequent performance. *Journal of Consumer Research*, *31*(1), 52–62.

- Szpunar, K.K., Spreng, R.N., & Schacter, D.L. (2014). A taxonomy of prospection: Introducing an organizational framework for future-oriented cognition. *Proceedings of the National Academy of Sciences USA*, 111, 18414-18421.
- Tangney, J. P., Baumeister, R. F., & Boone, A. L. (2004). High self-control predicts good adjustment, less pathology, better grades, and interpersonal success. *Journal of Personality and Social Psychology*, 72(2), 271–324.
- Taylor, S. E., Pham, L. B., Rivkin, I. D., & Armor, D. A. (1998). Harnessing the imagination: mental simulation, selfregulation, and coping. *American Psychologist*, 53(4), 429.
- Thaler, R. H. (1991). *Quasi rational economics*. New York: Russel Sage Foundation.
- Touré-Tillery, M., & Fishbach, A. (2011). The course of motivation. *Journal of Consumer Psychology, special issue on Applications of Behavioral Decision Theory*, 21, 414–423..
- Touré-Tillery, M., & Fishbach, A. (2015). It was(n't) me: Exercising restraint when choices appear self-diagnostic. *Journal of Personality and Social Psychology*, 109, 1117-1131.
- Trope, Y., & Fishbach, A. (2000). Counteractive self-control in overcoming temptation. *Journal of Personality and Social Psychology*, 79, 493-506.
- Vroom, V. H. (1964). *Work and motivation*. New York: Wiley.
- Webb, T. L., & Sheeran, P. (2006). Does changing behavioural intentions engender behavior change? A meta-analysis of the experimental evidence. *Psychological Bulletin*, 132, 249-268.
- Weiner, B., & Kukla, A. (1970). An attributional analysis of achievement motivation. *Journal of Personality and Social Psychology*, 15, 1-20.
- Wertenbroch (1998). Consumption Self-Control by Rationing Purchase Quantities of Virtue and Vice. *Marketing Science*, 17(4), 317-337.
- Zemack-Rugar, Y., Corus, C., & Brinberg, D. (2012). The 'response-to-failure' scale: Predicting behavior following initial self-control failure. *Journal of Marketing Research*, 49(6), 996–1014. doi:10.1509/jmr.10.0510
- Zhang, Y., & Fishbach, A. (2010). Counteracting obstacles with optimistic predictions. *Journal of Experimental Psychology: General*, 139, 16-31.
- Zhang, Y., Fishbach, A., & Dhar, R. W. (2007). When Thinking Beats Doing: The Role of Optimistic Expectations in Goal-Based Choice. *Journal of Consumer Research*, 34, 567 - 578.
- Zhou, H., & Fishbach, A. (2016). The Pitfall of Experimenting on the Web: How Unattended Selective Attrition Leads to Surprising (yet False) Research Conclusions. *Journal of Personality and Social Psychology*, 111, 493-504.

DUTCH SUMMARY

Theoretische achtergrond

Wij leven in een ontzettend rijke tijd in de westerse maatschappij. Nog nooit in de geschiedenis hebben minder mensen hongergeleden dan nu. Maar in plaats van ondervoeding hebben we nu een probleem met overvoeding. Jaarlijks stijgt het percentage van mensen met overgewicht in westerse naties. Wij hebben ook nog nooit meer mogelijkheden gehad om te consumeren. Terwijl nog niet zo lang geleden de mogelijkheid om geld uit te geven beperkt werd door openingstijden, kunnen mensen nu 24/7 online aan hun consumptie-impulsen toegeven. Aan de ene kant hebben we zo veel meer vrijheid en keus, maar door een continue stroom aan consumptieverleidingen geven mensen meer geld uit en hebben meer persoonlijke schulden. Het lijkt erop dat veel mensen niet optimaal in staat zijn om zó met de vrijheden in onze maatschappij om te gaan dat ze een gezond, schuldenvrij en gelukkig leven kunnen leiden.

Een verklaring voor dit fenomeen komt uit de motivatiepsychologie. Mensen handelen vaak zonder oog te hebben voor de lange termijn. De bevrediging van impulsen op de korte termijn heeft vaak een sterkere invloed op het gedrag. Mensen zijn dus gewoon vaak niet in staat om hun impulsen door zelfcontrole te reguleren en zo lange-termijn doelen na te streven. Dit proefschrift onderzoekt de strategieën waarmee men een gebrek aan zelfcontrole kan voorkomen. Hierbij ligt de focus van het onderzoek op drie verschillende vragen: hoe reguleren mensen hun zelfcontrole (1) als ze eerder al succesvol een doel hebben nagestreefd, (2) als ze hebben gefaald, (3) en hoe bereiden mensen zich op toekomstige doelen voor.

Zelfcontrole in de context van succes

Het maken van aannames en voorspellingen over toekomstige gebeurtenissen is essentieel voor zelfcontroleprocessen. Alleen als mensen de consequenties van bepaalde verleidingen voorzien zijn ze gemotiveerd om deze verleidingen te weerstaan.

Eerder onderzoek heeft twee verschillende zelfcontrole-mechanismen geïdentificeerd met tegengestelde effecten op doelmotivatie. *Highlighting* aan de ene kant suggereert dat mensen zich na een succesvol poging tot het behalen van een doel op hetzelfde doel concentreren en het verder nastreven. *Balancing* aan de andere kant betekent dat mensen verschillende doelen afwegen en zich dus na het behalen van een doel op een ander doel concentreren. Met

betrekking tot *highlighting* liet onderzoek zien dat mensen meer doelmotivatie hebben als ze hun eerdere succes interpreteren als bewijs voor hun toewijding aan het doel in kwestie. *Balancing* mechanismen treden vooral op als succes als het *behalen* van het doel wordt geïnterpreteerd. In het laatste geval krijgen mensen het gevoel dat ze meer hebben bereikt dan gepland en laten zich verleiden om andere motivaties te vervolgen. In dit proefschrift onderzoeken we of het herinneren van verleidingen in het verleden een highlighting dynamiek of een balancing dynamiek bevordert.

Zelfcontrole in de context van falen

Wanneer het nastreven van een bepaald doel mislukt kunnen mensen het doel opnieuw oppakken en proberen het falen weer goed te maken, of ze geven voorlopig op en falen verder. Het laatstgenoemde werd door eerder onderzoek bijvoorbeeld in de context van eten en consumeren aangetoond. Als mensen hun dieet-doelen veronachtzamen en een pizza eten neigen ze ertoe om daarna ook nog een dessert te nemen. Maar er is ook onderzoek dat aantoont dat de ervaring van tekortschieten juist motiveert. Carver & Scheier (1991) hebben bijvoorbeeld gesuggereerd dat een discrepantie tussen de status quo en een doel stimuleert om meer doelgericht gedrag te vertonen. In dit proefschrift onderzoeken we wat er gebeurd als mensen het gevoel hebben dat falen niet bij hun past, dus als ze falen als een uitzondering begrijpen.

Zelfcontrole bij toekomstige pogingen tot doelgericht gedrag

In dit proefschrift onderzoeken we of mensen strategisch toekomstige alternatieven bedenken die zelfcontrole activeren om zo gepland doelgericht gedrag te beschermen. Eerder onderzoek liet bijvoorbeeld zien dat mensen zelfcontrolemechanismen activeren als een verleiding het bereiken van een doel bedreigt. Dit proces staat bekend als *counteractive control* en stimuleert doelgericht gedrag omdat mensen zo in staat zijn om zich voor te bereiden op het weerstaan van verleidingen. In dit proefschrift onderzoeken we of mensen ook zelf verleidingen bedenken; met andere woorden: genereren mensen strategisch alternatieven die hun doel bedreigen om hun doel te beschermen?

Doelen van deze proefschrift

De centrale onderzoeksvraag van dit proefschrift was hoe zelfcontrole mensen helpt hun doelen effectief na te streven. Zelfcontrole kan zowel na afloop als op

voorhand een rol spelen in het nastreven van doelen. Hiertoe zijn drie specifieke doelstellingen geformuleerd die in drie empirische hoofdstukken werden behandeld.

De eerste doelstelling van dit proefschrift was om te testen of mensen doelgericht gedrag laten zien als ze al in een vorige situatie succesvol hun impulsen hebben gecontroleerd. Deze onderzoeksvraag is behandeld in Hoofdstuk 2. Zoals eerder al beschreven heeft onderzoek laten zien dat het een onderscheid maakt of mensen hun gedrag interpreteren als vooruitgang of als indicator van toewijding (e.g., Fishbach & Dhar, 2005). Ons werk levert een belangrijke bijdrage aan eerder onderzoek doordat we deze cognitieve zelfcontrole processen in de context van *counterfactual temptations* hebben onderzocht—verleidingen uit het verleden die we succesvol weerstaan hebben. De hypothese was dat mensen door *counterfactual temptation* een gevoel van grote zelfbeheersing krijgen en zo sterker gemotiveerd zijn om een langetermijn doel na te streven.

Ten tweede werden de zelfcontrole processen onderzocht als mensen eerder hebben gefaald in het streven naar een bepaald doel. Eerder onderzoek heeft laten zien dat falen vaak samenhangt met verder falen, maar ook motiverend kan zijn omdat mensen het gevoel dat ze meer zich meer moeten inspannen om hun doel te bereiken. In Hoofdstuk 3 behandelen we deze vraag en onderzoeken een fenomeen dat eerder nog niet werd beschreven in de psychologische literatuur: namelijk, wat gebeurt er als falen als een uitzondering wordt geïnterpreteerd? De hypothese was dat uitzonderingen een motiverend effect hebben, omdat mensen falen als atypisch interpreteren en het tekort willen goedmaken.

De derde doelstelling, tot slot, was om te onderzoeken hoe mensen omgaan met toekomstige pogingen om een doel te bereiken. Eerder onderzoek toonde aan dat zelfcontroleprocessen opgeroepen kunnen worden door toekomstige verleidingen omdat mensen gemotiveerd zijn om hun doelgerichte gedrag te beschermen. In Hoofdstuk 4 hebben we de invloed van *prefactual thinking*—het genereren van toekomstige alternatieven—op zelfcontrole onderzocht. De hypothese was dat mensen *prefactuals* strategisch gebruiken om zelfcontroleconflicten in de toekomst te identificeren en zo hun doelgerichte gedrag te beschermen.

Resultaten

De effecten van *counterfactual temptation* op doelgericht gedrag hebben we in Hoofdstuk 2 in drie studies onderzocht. Studie 2.1 liet zien proefpersonen die over een situatie in het verleden nadachten waar ze aan een verleiding

hadden kunnen toegeven (maar dat niet deden) een grotere mate van zelfcontrole ervoeren en vervolgens gemotiveerder waren om een belangrijk doel na te streven. Studie 2.2 repliceerde dit effect met een gedragsmaat van taakmotivatie. Studie 2.3 maakte een onderscheid tussen de interpretatie van counterfactual temptation als *progress* of als *commitment*. In overeenstemming met eerder onderzoek had counterfactual temptation alleen een positief effect op motivatie als mensen over hun doel-*commitment* nadachten.

De invloed van uitzonderingen op doelgericht gedrag hebben we in Hoofdstuk 3 in drie studies onderzocht. Studie 3.1 toonde aan dat mensen die falen als een geïsoleerd incident interpreteerden een sterker gevoel van uitzondering hadden. Dit leidde ertoe dat deze proefpersonen gemotiveerder waren om een belangrijk doel na te streven. In studie 3.2 werd aangetoond dat uitzondering niet alleen een mediërend maar ook een modererend effect heeft. Proefpersonen die falen als uitzondering interpreteerden hadden een sterker gevoel van zelfcontrole dan proefpersonen die falen als patroon interpreteerden en waren vervolgens gemotiveerder hun doel te bereiken. Studie 3.3 liet zien dat dit zelfcontrolemechanisme ook daadwerkelijk kan leiden tot doelgericht gedrag en niet alleen een effect heeft op intenties.

In Hoofdstuk 4 keken we naar de rol van *prefactual thinking* bij het activeren van zelfcontrole. In vijf studies vonden we ondersteuning voor de hypothese dat het genereren van alternatieven voor geplande pogingen tot het bereiken van een doel zelfcontrole activeert. In studie 4.1 werd aangetoond dat mensen die prefactuele alternatieven genereerden sterkere intenties voor doelgericht gedrag rapporteerden en een voorkeur hadden voor doelgerichte gedragsalternatieven. In studie 4.2 presteerden studenten die over alternatieven voor hun studieplannen nadachten beter op een cognitieve test dan studenten in een controle groep. In studies 4.3 en 4.4 vonden we ondersteuning voor onze hypothese dat het effect van prefactuele alternatieven op motivatie gemedieerd werd door doel *commitment*. Tot slot hebben we in studie 4.5 ook modererende rol van doel *commitment* onderzocht: de proefpersonen bleken alleen gemotiveerder om een doel te bereiken als ze een hoge *commitment* voelden, maar niet als het *commitment* laag was. Kortom, prefactueel denken kan helpen om motivatie voor een doelvervolgung te vergroten, maar alleen als men tegelijk een hoge doel *commitment* ervaart.

Conclusie

Op basis van de bevindingen van dit proefschrift hebben we drie strategieën geïdentificeerd die mensen kunnen gebruiken om zelfcontrole en doelmotivatie te vergroten. Ten eerste liet eerder onderzoek zien dat mensen als gevolg van succes het gevoel krijgen dat ze het zich kunnen veroorloven om aan verleidingen toe te geven. Aan de andere kant konden wij aantonen dat het oproepen van herinneringen aan counterfactuele verleidingen een gevoel van een hoge mate van zelfcontrole oproept en zo doelmotivatie ondersteunt. Ten tweede bleek uit eerder onderzoek dat falen bij een poging een doel te bereiken vaak gepaard gaat met verder falen. In dit proefschrift lieten we zien dat dit niet het geval is als mensen falen als uitzondering interpreteren. In dat geval wordt doelmotivatie juist sterker omdat mensen hun misstap willen goedmaken. Ten derde konden we eerder onderzoek naar *counteractive control* uitbreiden door te laten zien dat mensen strategisch alternatieven bedenken om toekomstig doelgericht gedrag te beschermen.

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CURRICULUM VITAE

Johannes Seehusen was born on 31 October 1983 in Münster, Germany. He attended secondary education at the Freiherr-vom-Stein-Gymnasium, Münster, graduating in 2003. Afterwards, he spent one year as a civil servant in a hospital, before he (temporarily) decided to become a teacher and enrolled in Social Sciences and German Studies at the University of Münster. In 2006, he met the love of his life and together, they decided to change their paths and moved to Groningen, the Netherlands, in 2007. He obtained a Bachelor's degree (cum laude) in Psychology at the University of Groningen in 2010, and continued his studies with the Behavioural Science Research Master programme, leading to a M.Sc. degree (summa cum laude). Inspired by the academic world and curious for more, he started to pursue his doctorate funded by the Ph.D. fund of the University of Groningen under supervision of Dr. Kai Epstude and Prof. Dr. Russell Spears. He conducted his research on cognitive processes underlying self-control mechanisms, a topic which he not only found fascinating, but which also affected many areas of his personal life. Since 2016, he and his wife Sophia are proud parents of their son Leo.

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