

CURRICULUM VITAE – ANITA TUSCHE

CONTACT INFORMATION

Anita Tusche, Ph.D.

Phone: +1 (613) 533 2351

E-Mail: anita.tusche@queensu.ca

PROFESSIONAL APPOINTMENTS

- 11/2018 - today **Assistant Professor in Neuroeconomics**, Queen's National Scholar
Queen's University, Department of Psychology and Department of Economics
- 11/2018 – today **Visiting Associate** (Visiting Member of the Faculty)
California Institute of Technology, Pasadena, USA
- 04/2014 - 10/2018 **Postdoctoral Scholar in Neuroeconomics and Social Neuroscience**
California Institute of Technology, Pasadena, USA
Advisors: Prof. Ralph Adolphs and Prof. Antonio Rangel
- 10/2017 - 12/2017 **Lecturer**, part-time
California Institute of Technology, Pasadena, USA
- 03/2013 - 03/2014 **Postdoctoral Scholar in Social Neuroscience**
Max Planck Institute for Human Cognitive and Brain Sciences, Leipzig, Germany
Advisor: Prof. Tania Singer

EDUCATION

- 08/2007 - 02/2013 **Ph.D. in Psychology**, *summa cum laude*
¹ Bernstein Center for Computational Neuroscience, Berlin, Germany
² Humboldt University Berlin, Berlin, Germany
³ Max Planck Institute for Human Cognitive and Brain Sciences, Leipzig
Thesis: *Neural Encoding of Real-world Preferences during Automatic Processing*
Advisor: Prof. John-Dylan Haynes
Funding: Ph.D. Scholarship of The Max-Planck Society
- 10/2001 - 05/2007 **Diploma in Psychology** (equivalent to B.A. and M.A.), *with highest distinction*
Technical University Dresden, Dresden, Germany
Advisor: Prof. John-Dylan Haynes
Funding: Scholarship of the German Academic Scholarship Foundation
- 06/2005 - 01/2006 **Study Abroad, Cognitive Neuroscience/Psychology**
University of Western Sydney, Sydney, Australia

PUBLICATIONS

Peer-reviewed Journals

- (1) ^[OA] ¹ Boeckler, A., **Tusche**, A., Peter Schmidt, & Singer, T. (2018). Distinct mental trainings differentially affect altruistically motivated, norm motivated, and self-reported prosocial behaviour. *Scientific Reports*, 8(1): 13560.

¹ [OA] Open Access

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- (2) ^[OA] **Tusche, A.** & Hutcherson, C. (2018). Cognitive regulation alters social and dietary choice by changing attribute representations in domain-general and domain-specific brain circuits. *eLife*, e31185 .
- (3) Schmidt, L., **Tusche, A.**, Manoharan, N., Hutcherson, C., Hare, T. & Plassmann, H. (2018) Neuroanatomy of the vmPFC and dlPFC predicts individual differences in cognitive regulation during dietary self-control across regulation strategies. *Journal of Neuroscience*, 3402-17.
- (4) Adolphs, R. & **Tusche, A.** (2017). How attention to faces guides prosocial behavior. *Current Directions in Psychological Science*, 26(3): 282-287.
- (5) ^[OA] Corradi-Dell'Acqua, C.*, **Tusche, A.***, Vuilleumier, P. & Singer, T. (2016). Cross-modal representations of first-hand and vicarious pain, disgust and fairness in insular and cingulate cortex. *Nature Communications*, 7: 10904.
* AUTHORS EQUALLY CONTRIBUTED TO THE STUDY, SHARED FIRST-AUTHORSHIP
- (6) **Tusche, A.**, Boeckler, A., Kanske, P., Trautwein, F.-M. & Singer, T. (2016). Decoding the charitable brain: Empathy, perspective taking, and attention shifts differentially predict altruistic giving. *The Journal of Neuroscience*, 36(17): 4719-4732.
- (7) Boeckler, A., **Tusche, A.** & Singer, T. (2016). The structure of human prosociality: Evidence for independent sub-components differentiating altruistically-, norm-, and strategically motivated behavior, and self-reports. *Social Psychological and Personality Science*, 7(6): 530-541.
- (8) Boeckler, A., **Tusche, A.** & Singer, T. (2017). The Structure of Human Prosociality Revisited: Corrigendum and Addendum to Böckler, Tusche, and Singer (2016). *Social Psychological and Personality Science*, [https://doi.org/10.1177/1948550617722200].
- (9) Wisniewski, D., Reverberi, C., **Tusche, A.** & Haynes, J.-D. (2015). The Neural Representation of Voluntary Task-Set Selection in Dynamic Environments. *Cerebral Cortex*, 25(12): 4715-4726.
- (10) **Tusche, A.**, Smallwood, J., Bernhardt, B.C. & Singer T. (2014). Classifying the wandering mind: revealing the affective content of thoughts during task-free rest periods. *NeuroImage*, 97: 107-116.
- (11) ^[OA] Engert, V., Merla, A., Grant, J.A., Cardone, D., **Tusche, A.** & Singer, T. (2014). Exploring the use of thermal infrared imaging in human stress research. *PLoS One*, 9(3): e90782.
- (12) Bernhardt, B.C., Smallwood, J., **Tusche, A.**, Ruby, F.J., Engen, H.G., Steinbeis, N. & Singer, T. (2014). Medial prefrontal and anterior cingulate cortical thickness predicts shared individual differences in self-generated thought and temporal discounting. *NeuroImage*, 90: 290-297.
- (13) **Tusche, A.**, Kahnt, T., Wisniewski, D. & Haynes, J.-D. (2013). Automatic processing of political preferences in the human brain. *NeuroImage*, 72: 174-182.
- (14) Heinzle, J., Anders, S., Bode, S., Bogler, C., Chen, Y., Cichy, R. M., Hackmack, K., Kahnt, T., Kalberlah, C., Reverberi, C., Soon, C. S., **Tusche, A.**, Weygandt, M. & Haynes, J.-D. (2012). Multivariate decoding of fMRI data: Towards a content-based cognitive neuroscience. *e-Neuroforum: Reviews in Neuroscience*, 3(1): 1-16.
- (15) **Tusche, A.**, Bode, S. & Haynes, J.-D. (2010). Neural responses to unattended products predict later consumer choices. *The Journal of Neuroscience*, 30(23): 8024-8031.

Books and Book Chapters

- (16) Singer, T., & **Tusche**, A. (2013). Understanding others: Brain mechanisms of theory of mind and empathy. In P. W. Glimcher, & E. Fehr (Eds.), *Neuroeconomics: Decision making and the brain* (2nd ed., pp. 513-532). London, UK: Academic Press.
- (17) **Tusche**, A. (2012). Neural Encoding of Real-world Preferences During Automatic Processing. [www.deutsche-digitale-bibliothek.de/item/6ZKCIVAM72TL4E5NR3IV6K3EN7ODIZ32].

GRANTS

- 11/2018 Research Initiation Grant, Queen's University
Role: PI (100,000 CAD)
- 09/2017 The Hilda and Preston Davis Foundation Awards Program for Eating Disorder Research, Senior Postdoctoral Fellowships. *Computational Models and Markers of Relapse in Anorexia Nervosa*
Role: PI (116.500 USD)
- 04/2017 National Institute of Mental Health (NIMH), basic research Conte Center. *The Neurobiology of Social Decision Making* (P50MH094258-01A1)
Role: Co-Investigator (275.000 USD)

INVITED TALKS

- (1) 03/2018 Social Information Processing and Decision-Making: Models, Research, and Applications, *University of Vienna*, Austria
- (2) 01/2018 Neurobiological Models of Human Decision-Making and Social Information Processing, *University Hospitals Jena*, Germany
- (3) 01/2018 Altruism: From Neural Mechanisms to Prosocial Decisions. Departments of Psychology and Economics, *Queens University*, Canada
- (4) 03/2017 Neurocomputational approaches to social and non-social decision-making. CCN Meeting, Faculty of Psychology and Educational Sciences, *Ghent University*, Belgium
- (5) 03/2017 Computational models of self-control in altruistic choice. Decision Neuroscience Lab, *Donders Centre for Cognitive Neuroimaging*, Netherlands
- (6) 10/2016 Attentional control in social and non-social choice. Colloquium Social Psychology and Social Neuroscience, *University of Bern*, Switzerland
- (7) 09/2016 Computational and neural mechanisms of altruistic and healthy choices: cognitive regulation in social and non-social choice domains. *Annual Conference of the Society for Neuroeconomics (SNE)*, Berlin, Germany
- (8) 06/2016 Shared neural network accounts of empathy for primary sensory experiences and unfair economic transactions. Social Cognitive Neuroscience Laboratory, Department of Psychology, *University of California*, Los Angeles, USA
- (9) 05/2015 Disentangling theory of mind, empathy, and attention during prosocial choice. Annual Interdisciplinary Symposium on Decision Neuroscience, *Massachusetts Institute of Technology (MIT)*, Cambridge, Massachusetts, USA
- (10) 03/2015 Affective processing in the anterior insula: evidence from cross-modal comparisons of response patterns and prosocial decision-making. Seminar Series of the Center for Cognitive Neuroscience Berlin (CCNB), *Free University Berlin*, Germany

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- (11) 09/2014 Cross-modal coding in the anterior insula: shared and distinct neural codes for pain, disgust and unfair economic offers. *Annual Conference of the Society for Neuroeconomics (SNE)*, Miami, Florida, USA
- (12) 11/2013 Brain as predictor: Using neural measures to predict preference-based behavior and subject driven mental states. Colloquium of the Department of Basic Psychological Research and Research Methods, Faculty of Psychology, *University of Vienna*, Austria
- (13) 06/2013 A penny for your thoughts – revealing the valence of spontaneous self-generated thoughts during rest. *Annual Meeting of the Organization for Human Brain Mapping (OHBM)*, Seattle, WA, USA
- (14) 06/2011 The neural encoding of subjective preferences. Center for Neuroeconomics, Center for Neural Science, *New York University*, NY, USA
- (15) 04/2011 Brain signals reveal subsequent consumer choices for unattended products. 1st Einstein Fellowship Symposium on ‘Decision-making’, *Welcome Trust Centre for Neuroimaging*, University College London; Berlin School of Mind and Brain, Berlin, Germany
- (16) 01/2011 Neural signatures of automatic processes predict real-world preferences. Psychology of Emotion and affective Neuroscience, *Free University Berlin*, Germany
- (17) 11/2010 Dual process models and political choice. Colloquium of the Department of Clinical Psychology, *Humboldt University Berlin*, Germany
- (18) 06/2007 Neural encoding of object valuation. Department of Neurophysiology, *Max Planck Institute Brain Research*, Frankfurt am Main, Germany

FIRST AUTHOR CONFERENCE POSTERS

- (1) **Tusche**, A., Hutcherson, C., and Adolphs, R. Neural and computational mechanisms of cognitive regulation in social and non-social choice. *Annual Conference of the Social & Affective Neuroscience Society (SANS)*, March 2016, NY, USA
- (2) **Tusche**, A., Corradi-Dell’Acqua, C., Vuilleumier, P., and Singer, T. Shared and distinct neural codes in anterior insula for pain, disgust and unfair economic offers. *Annual Meeting of the Organization for Human Brain Mapping (OHBM)*, June 2015, Honolulu, Hawaii, USA
- (3) **Tusche**, A., and Singer, T. Dissecting charitable giving: Empathy, mentalizing and reorienting attention differentially predict generous donation decisions. *Annual Conference of the Society for Neuroeconomics (SNE)*, September 2015, Miami, Florida, USA
- (4) **Tusche**, A., Smallwood, J., Bernhardt, B., and Singer, T. A penny for your thoughts – Revealing the valence of spontaneous self-generated thoughts during rest. *Annual Meeting of the Organization for Human Brain Mapping (OHBM)*, June 2013, Seattle, WA, USA
- (5) **Tusche**, A., and Haynes, J.D. Automatic processing of political preferences in the human brain. *Annual Meeting of the Organization for Human Brain Mapping (OHBM)*, June 2011, Québec City, Québec, Canada
- (6) **Tusche**, A., and Haynes, J.D. Automatic processing of political preferences in the human brain. *Cognitive Neuroscience Society (CNS)*, April 2011, San Francisco, CA, USA
- (7) **Tusche**, A., and Haynes, J.D. Predicting implicit consumer choices from the human brain. *Annual Meeting of the Organization for Human Brain Mapping (OHBM)*, June 2009, San Francisco, USA
- (8) **Tusche**, A., and Haynes, J.D. Decoding implicit consumer choices from brain signals. *Association for the Scientific Study of Consciousness (ASSC)*, May 2009, Berlin, Germany

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- (9) **Tusche, A.**, and Haynes, J.D. Do you like this car? Neural encoding of object valence and intensity. *International Conference of Psychology (ICP)*, July 2008 Berlin, Germany
- (10) **Tusche, A.**, and Haynes, J.D. Predicting implicit consumer choices from the human brain. *Annual Meeting of the Human Brain Mapping (OHBM)*, June 2008, Melbourne, Australia

AWARDS AND HONORS

- 2016 - 2018 Fast Track Program of the Robert Bosch Stiftung (Excellence and Leadership Skills for Outstanding Women in Science)
- 2011 & 2013 Trainee Abstract Travel Award – Organization for Human Brain Mapping (OHBM)
- 2007 - 2009 Ph.D. Scholarship of the Max-Planck Society
- 2007 Werner-Straub-Award for Outstanding Achievements during Academic Qualification (Master in Psychology)
- 2004 - 2007 Scholarship of the German Academic Scholarship Foundation (Studienstiftung des deutschen Volkes)

TEACHING

- 2017 Psy 115, Social Psychology, California Institute of Technology, Pasadena, USA
- 2014/2015 Seminar 'When Socio-Affective Neurosciences Meets Decision Sciences: The Puzzle of Understanding and Cooperating with Others' (Co-Teaching with Prof. Tania Singer), Charité University Medicine, Berlin, Germany
- 2012/2013 Lecture Series: IMPRS NeuroCom: 'Neuroscience II, Emotions', Max Planck Institute for Human Cognitive and Brain Sciences, Leipzig, Germany
- 08/2008 Seminar 'Transparent Humans: Reading Thoughts and Feelings', Summer School, Evangelisches Studienwerk Villigst, Germany

SCIENTIFIC PEER REVIEW

Nature Human Behavior; Journal of Neuroscience; Cerebral Cortex; Human Brain Mapping; Scientific Reports; NeuroImage; Cortex, Social Cognitive and Affective Neuroscience; Cognitive, Affective, and Behavioral Neuroscience; Frontiers in Neuroscience; Neuroscience Letters; Psychiatry Research: Neuroimaging; Journal of Marketing Research; Personality Neuroscience; European Journal of Social Psychology; Autism Research; Current Directions in Psychological Science; Psychological Science

PROFESSIONAL MEMBERSHIPS

American Psychological Association (APA)
Social and Affective Neuroscience Society (SANS)
Society for Neuroscience (SfN)
Society for Neuroeconomics (SNE)
German Society for Psychology (Deutsche Gesellschaft für Psychologie, DGP)

SELECTED MEDIA COVERAGE

Research featured in leading journal news outlets such as Süddeutsche Zeitung, Deutschlandfunk, Stuttgarter Zeitung, and international news such as Yahoo! News, The Daily Mail, The New Scientist, Medical News Today, and Peoples Daily

SERVICE TO COMMUNITY AND OUTREACH TO GENERAL PUBLIC

- Exhibits and Advisory Service for the Permanent Exhibition of Berlin Museum of Medical History at the Charité – Universitätsmedizin Berlin, Germany
- ‘Girls in STEM’ program (Girls’ Day), Max Planck Institute for Human Cognitive and Brain Sciences, Leipzig, Germany
- Selection committee for German National Academic Foundation

REFERENCES

Prof. Ralph Adolphs

California Institute of Technology,
Pasadena, USA
Phone: +1 (626)-395-4486
E-mail: radolphs@hss.caltech.edu

Prof. Tania Singer

MPI for Human Cognitive and Brain Sciences,
Leipzig, Germany
Phone: +49 (0)341-994-0149
E-Mail: singer@cbs.mpg.de

Prof. Antonio Rangel

California Institute of Technology,
Pasadena, USA
Phone: +1 (626)-395-4091
E-mail: rangel@hss.caltech.edu

Prof. John Dylan Haynes

Bernstein Center for Computational Neuroscience,
Berlin, Germany
Phone: +49 (0)30-2093-6762
E-mail: haynes@bccn-berlin.de