

Timothy Emmanuel Brown

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Education

- Ph.D. Philosophy, University of Washington (*expected Summer 2019*)
Thesis: *Modulating Agency: The Moral & Aesthetic Import of Closed-Loop Deep-Brain Stimulation*
Committee: Sara Goering (Chair), Andrea Woody, Carina Fourie, Georgina Campelia
- M.A. Philosophy, University of Washington, 2014
- B.A. Philosophy, University of California, Santa Cruz, 2008

Areas of Specialization: Neuroethics, Aesthetics

Areas of Competence: Philosophy of Science, Medical Ethics, Feminist Philosophy

Research Experience

Predoctoral Fellow (2012 – Present)

Center for Neural Technology (CNT), University of Washington

Promote ethics engagement in neuroengineering across laboratories, departments, and universities.

Attend and participate in lab meetings, organized outreach events, conducted surveys, and co-author white papers for internal distribution and articles for broader publication.

Graduate Research Assistant (2014 – 2019)

BioRobotics Lab, University of Washington

Investigated the moral implications of Brain Computer Interface-triggered Deep Brain Stimulation (BCI-DBS). Explored the potential psychosocial changes DBS users could experience when they have BCI control over their neurostimulators, and evaluated how do/ought accounts of autonomy, identity, and agency track those changes.

Publications (* peer-reviewed)

15. T. Brown, "Building Intricate Partnerships With Neurotechnology: Deep-Brain Stimulation and Relational Agency," Forthcoming in *the International Journal for Feminist Approaches to Bioethics (IJFAB)*.*
14. H. Martens, T. Brown "Trusting Oneself and Others: Relational Vulnerability and DBS for Depression," *AJOB Neuroscience* 9, no. 4 (February 29th, 2019).
13. M. Boulicault, T. Brown, "How Relationships Matter: The Need for Closer Attention to Relationality in Neuroethical Studies," *AJOB Neuroscience* 9, no. 4 (February 29th, 2019).

12. T. Brown, "Mandatory Neurointerventions and the Risk of Racial Disparity." *AJOB Neuroscience* 9, no. 3 (Sept 20, 2018): 156–57.
11. H. Martens, and T. Brown. "Relational Autonomy and the Quantified Relationship." *The American Journal of Bioethics* 18, no. 2 (Feb 2, 2018): 39–40.
10. S. Goering, T. Brown, and J. Alsarraf. "Others' Contributions to an Individual's Narrative Identity Matter." *AJOB Neuroscience* 8, no. 3 (Oct 23, 2017): 176-178.
9. L. S. Sullivan, E. Klein, T. Brown, M. Sample, M. Pham, P. Tubig, R. Folland, A. Truitt, and S. Goering, "Keeping Disability in Mind: A Qualitative Study of BCI Researcher Perspectives," *Science and Engineering Ethics* (June 22nd, 2017).*
8. J. Herron, M. Thompson, T. Brown, Howard Chizeck, Jeffrey Ojemann, and Andrew Ko. "Cortical brain computer interface for closed-loop deep brain stimulation." *IEEE Transactions on Neural Systems and Rehabilitation Engineering* (May 18th, 2017).*
7. M. Thompson, J. Herron, T. Brown, H. J. Chizeck, J. Ojemann, and A. Ko, "Chronic ECoG for Sensing Movement Intention and Closed-Loop DBS with Wearable Sensors in an Essential Tremor Patient," *Journal of Neurosurgery* (November 18th, 2016).*
6. T. Brown, M. Thompson, J. Herron, A. Ko, H. J. Chizeck, and S. Goering, "Controlling Our Brains — On the Ethical Implications of Brain Computer Interface-Triggered Deep Brain Stimulation for Essential Tremor," *Brain-Computer Interfaces* 3 (3) (September 14th, 2016).*
5. T. Brown, P. Moore, J. Herron, M. Thompson, T. Bonaci, H. J. Chizeck, and S. Goering, "Personal Responsibility in the Age of User-Controlled Neuroprosthetics", *Proceedings of the 2016 IEEE International Symposium on Ethics in Engineering, Science and Technology* (May 13th, 2016).*
4. T. Brown, "Neuroethics, Mental Health, and Prisons: What Does Race Have to Do with It?" *Brainstorm* 9 (1) (January 15th, 2016): 7-9.
3. T. Brown, "A Relational Take on Advisory Brain Implant Systems." *AJOB Neuroscience*, 6, no. 4 (November 30th, 2015): 46–47.
2. E. Klein, T. Brown, M. Sample, A. R. Truitt, and S. Goering. "Engineering the Brain: Ethical Issues and the Introduction of Neural Devices." *Hastings Center Report*, 45, no. 6 (November 1st, 2015): 26–35.*
1. T. Brown. "Narrative Practice Apart From Truth." *AJOB Neuroscience*, 3, no. 4 (October 2012): 91–92.

Presentations (* invited, † poster)

14. T. Brown, J. Metcalf, "Neuro-interventions and machine bias," Neuroscience, Ethics, & Law in an Era of Big Data, University of Oregon.*
13. T. Brown, "Humanities Bootcamps: Strategies for programming and support," Graduate Career Consortium (GCC) Regional Meeting: Northwest and Western Canada, University of Washington, 2019.
12. K. Pratt, T. Brown, "Privacy and Policy of Neural Information," Information Ethics Roundtable, 2018.
11. T. Brown, "Lessons from Humanities Without Walls: an Alt-Ac Career Workshop," Simpson Center for the Humanities, University of Washington, 2018.*
10. T. Brown, N. Wilson, and D. Sarma "Designing Inclusive Neural Technologies: A Meta-study on Brain Computer Interface Research Practices," *International Neuroethics Society Annual Meeting*, 2017†
9. T. Brown and M.C. Thompson. "When Neuroethicists Become Labmates: Obstacles, Recommendations, and Metrics for Success," *International Neuroethics Society Annual Meeting*, 2016.
8. T. Brown. "Being in Control: On the Possibility of Brain Computer Interface-Triggered Deep Brain Stimulation for Essential Tremor," *American Society of Bioethics and Humanities Annual Meeting*, 2016.
7. T. Brown, P. Moore, J. Herron, M. Thompson, T. Bonaci, H. J. Chizeck, and S. Goering, "Personal Responsibility in the Age of User-Controlled Neuroprosthetics," 2016 IEEE International Symposium on Ethics in Engineering, Science and Technology.
6. T. Brown and Laura Specker-Sullivan, "Engineering Uncertainty at the Intersection of Agency, Autonomy, and Authenticity," *Bioethics: Preparing for the Unknown*, Center for the Study of Ethics in Society, Western Michigan University, 2016.
5. T. Brown, "'Who Am I When I'm in Control': The Identity Ethics of Closed-Loop Deep Brain Stimulation for Essential Tremor," *International Neuroethics Society Annual Meeting*, 2015. †
4. T. Brown, and M. Tate, Comments on Lisa Shapiro's "What is a Philosophical Work?" and Leroy Searle's "Philosophy, Vision, and Poetic Construction: William Blake and J. M. Coetzee's Foe" at the *Roles of Fiction in Early Modern Philosophy Conference*. University of Washington. 2015.*
3. P. Moore, T. Brown, J. Herron, M. Thompson, T. Bonaci, S. Goering, H. Chizeck. "Personal Responsibility in the Age of User-Controlled Neuroprosthetics." *WeRobot Conference on Robotics, Law & Policy*, 2015.
2. T. Brown. "Intersectionality in Neuroethics," *American Society of Bioethics and Humanities Annual Meeting*, 2014.

1. S. Goering, E. Klein, T. Brown, A. Intriago, M. Sample, and A. Truitt. "Sensorimotor Neural Prosthetics and the Relevance of Disability Perspectives," *International Neuroethics Society Annual Meeting*, 2013. †

Teaching Experience

Instructor, University of Washington (2019)

Middle-level Course: Medical Ethics

Teaching Assistant, University of Washington (2011–2014)

Lower-Level Courses: Intro to Philosophy, Intro to Logic, Practical Reasoning, Moral Problems

Middle-Level Courses: Medical Ethics

Teaching Assistant, University of California Santa Cruz (2008–2010)

Lower-Level Courses: Intro to Philosophy, Philosophy & Sexuality, Philosophy of Technology

Middle-Level Courses: Ancient Greek Philosophy, The Rationalists

Upper-Level Courses: The Problem of Other Minds

Educational and Public Outreach

Lectures

2018 — Neuroethics Workshop, MIT Online Science, Technology, and Engineering Community (MOSTEC) program, Massachusetts Institute of Technology

2017, 2018 — Introducing Neuroethics, Young Scholars Program-REACH (YSP-REACH), Center for Neurotechnology, University of Washington

2016, 2017 — Introducing Neuroethics, Upward Bound Program, University of Washington

Mentorship

2018, 2016 — Mentor, Research Experience for Undergraduates (REU) program, Center for Neurotechnology, University of Washington

2017 — Coordinator & Mentor, Inclusive Summer High School Institute for Philosophy (ISHIP) program, Janet Prindle Institute for Ethics at DePauw University

2014 — Mentor, Young Scholars Program (YSP), Center for Neurotechnology, University of Washington

Public Events

2018 — Co-coordinator and Panelist, "UW Insider Series: Ethics and the Human Technology Frontier," University of Washington

2017 — Panelist, "Neuroscience for Everyone," Neurobiology Dept., University of Washington

2017 — Panelist, "The Human-Technology Frontier: To Enhancement and Beyond?" National Science Foundation's Futurecon @ Awesomecon

Fellowships, Awards, and Honors

- 2019 — Stroum Endowed Minority Dissertation Fellow, Graduate Opportunities and Minority Achievement Program, University of Washington
- 2018 — Digital Humanities Summer Fellow, Simpson Center for the Humanities, University of Washington
- 2017 — Oxford University Press Poster Award, International Neuroethics Society Annual Meeting
- 2017 — Pre-Doctoral Fellow, Andrew W. Mellon Foundation / Humanities Without Walls Pre-Doctoral Career Diversity Summer Workshop
- 2016 — Oxford University Press Poster Award, International Neuroethics Society Annual Meeting
- 2015 — 1st place winner, Center for Neurotechnology Annual Hackathon
- 2014 — Seed grant for the project, "Focus Study: End-User Perspectives on Ethics Related to Sensorimotor Neural Engineering," Center for Neurotechnology, University of Washington.
- 2013 — Top Poster, International Neuroethics Society Annual Meeting

Service

- 2016 – 2019 — Member, Student / Postdoctoral Committee, International Neuroethics Society
- 2016 – 2019 — Executive Assistant, Student Leadership Council, Center for Neurotechnology
 - 2015 — Volunteer Coordinator, Joint Philosophy of Social Science Roundtable & European Network for the Philosophy of the Social Sciences Conference, University of Washington
 - 2014 — Judge for the 1st Annual Hackathon, Center for Neurotechnology.
 - 2014 — Graduate Student Representative, UW Department of Philosophy
 - 2012 — Volunteer Coordinator, Ben Rabinowitz Symposium on Medical Ethics, UW Department of Philosophy
 - 2011 — Philosophy Department Representative for Graduate Student Association, UC Santa Cruz

References

Sara Goering

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Oregon Health and Sciences University
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