

KAROLA KREITMAIR

CURRICULUM VITAE

UNIVERSITY EDUCATION

- 2013** **Ph.D. in Philosophy**
Stanford University, Stanford, CA
- 2006** **M.Sc. in the Evolution of Language and Cognition (Distinction)**
University of Edinburgh, Scotland, UK
- 2004** **B.A. in Philosophy (Distinction in Playwriting)**
Brown University, Providence, RI

DISSERTATION

Title: *Sticky Attunements – On the Relationship Between Organisms and Their Environments*
Committee: Ken Taylor (supervisor), John Perry, Mark Crimmins

POSITIONS HELD

- 2023** **Marie-Curie Senior Fellow**
Freiburg Institute of Advanced Studies, Freiburg, Germany
- 2018 – present** **Assistant Professor**
University of Wisconsin – Madison, School of Medicine and Public Health, Department of Medical History and Bioethics
- 2018 – present** **Clinical Ethics Consultant (HEC-C Certified)**
University of Wisconsin Hospitals and Clinics
- 2016 – 2018** **Clinical Ethics Fellow**
Stanford Center for Biomedical Ethics, Stanford School of Medicine
- 2014** **Visiting Lecturer**
Sookmyung University, Seoul, South Korea
- 2013 – 2016** **Lecturer**
Thinking Matters, Stanford University

HONORS, GRANTS, AWARDS

2022 – 2023: Marie-Curie Senior Fellowship (Freiburg Institute of Advanced Studies, Freiburg University)

2021: AJOB- Neuroscience Top Abstract Award

2019: Co-Investigator, NIH R34 – “Promoting Resilience in Children: Protocol Development for a Birth Cohort Study to Assess Factors Impacting Neurodevelopment (Ethical and Legal)”, PI: Pilar Ossorio (UW Madison). 8.5 % salary support

2019: Guest Researcher Fellowship (Freiburg University/FRIAS)

2017: Rising Star Plenary Lecture Award (International Neuroethics Society)

2017: Medicine and the Muse Frankenstein@200 Grant (\$5000) (Stanford Center for Biomedical Ethics)

2016: Clinical Ethics Fellowship (Stanford Center for Biomedical Ethics)

2013: Thinking Matters Postdoctoral Fellowship (Stanford University)

2013: Humanities Center Dissertation Scholarship (Stanford University, declined)

POSITIONS HELD THAT REQUIRE SCHOLARLY COMPETENCE

2021 – present: Panel Member, Congressionally Directed Medical Research Programs (CDMRP), Traumatic Brain Injury and Psychological Health Research Program (TBIPHRP).

2020: Ventilator Allocation Advisory Workgroup, State Disaster Medical Advisory Committee, Wisconsin

2020: COVID-19 Rapid Response Ethics Team (RRET), UW Health

2020: COVID-19 Vaccine Allocation Sub-Committee, UW Health

2019 – 2021: Expert Advisory Board, NIH R01 – “Enabling Ethical Participation in Innovative Neuroscience on Mental Illness and Addiction”, PI: Lisa Roberts (Stanford University).

2016 – 2022: Book Review Editor, American Journal of Bioethics.

MEMBERSHIP

Association of Bioethics Program Directors (ABPD)
American Society of Bioethics and Humanities (ASBH)
International Neuroethics Society (INS)
Bioethics Network of the Upper Midwest (BENUM)

BIBLIOGRAPHY

A. Books and monographs

B. Editions and collections

C. Articles and contributions to edited volumes ([P] indicates peer-reviewed)

Kreitmair, K. (2023) “Consciousness and the Ethics of Human Brain Organoid Research”, *Cambridge Quarterly of Healthcare Ethics*, [EARLY VIEW: <https://doi.org/10.1017/S0963180123000063>]. [P]

Kreitmair, K. (2023) “Mobile Health Technology and Empowerment”, *Bioethics*, [EARLY VIEW: <https://doi.org/10.1111/bioe.13157>]. [P]

- Kreitmair, K.** (2023) "Why We Still Need a Substantive Determination of Death", *American Journal of Bioethics*, 23 (2), 55-57.
- Kreitmair, K.** (2021) "Medical Ethics, Moral Courage, and the Embrace of Fallibility", *Academic Medicine*, 96(12), 1630-1633.
- Greely, H, and **Kreitmair, K.** (2021) "Should Cerebral Organoids be Used for Research if They Have the Capacity for Consciousness?", *Cambridge Quarterly of Healthcare Ethics: Clinical Neuroethics*, 30(4), 575-584.
- Kreitmair, K.** (2021) "Digital Behavioral Technology, Deep Learning, and Self-Optimization", in Fabrice Jotterand, Marcello Ienca, Liang Mingyu (eds) *Ethics of Artificial Intelligence in Brain and Mental Health*, Springer Series.
- Martinez, N., Dasgupta, I., Carter, A., Chandler, J. Kellmeyer, P., **Kreitmair, K.** Weiss, A, Cabrera, L. (2020) "Ethics of Digital Mental Health During COVID-19: Crisis and Opportunities", *JMIR mental health*, 7(12), e23776. [P]
- Kreitmair, K.** (2019) "Dimensions of Ethical Direct-to-Consumer Neurotechnologies", *American Journal of Bioethics – Neuroscience*, 10 (4), 152-166. [P]
- Kreitmair, K.** (2019) "Response to Open Peer Commentaries on 'Ethical Dimensions of Direct-to-Consumer Neurotechnologies'", *American Journal of Bioethics – Neuroscience*, 10 (4), W1-W3.
- Kreitmair, K.** (2019) "Neuroprosthetic Speech: Pragmatics, Norms, and Self-Fashioning", *Cambridge Quarterly of Healthcare Ethics: Clinical Neuroethics*, 28 (4), 671-676. [P]
- Emerging Issues Task Force, International Neuroethics Society: Kellmeyer, P., Chandler, J., Cabrera, L., Carter, A., **Kreitmair, K.**, Weiss, A., and Illes, J. (2019) "Neuroethics at 15: The Current and Future Environment for Neuroethics", *American Journal of Bioethics – Neuroscience*, 10 (3), 104-110. [P]
- Kreitmair, K.**, and Magnus, D. (2019) "Citizen Science and Gamification", *Hastings Center Report*, 49 (2), 40-46. [P]
- Martinez, N., and **Kreitmair, K.** (2018) "Ethical Issues for Direct-to-Consumer Digital Psychotherapy Apps: Addressing Accountability, Data Protection, and Consent", *JMIR Mental Health*, 5(2), e32. [P]
- Kreitmair, K.** (2018) "Phenomenological Considerations of Sex-Tracking Technology", *American Journal of Bioethics*, 18 (2), 31-33.
- Kreitmair, K.**, and Cho, M. (2017) "The Neuroethical Future of Wearables and Mobile Health Technology" in Judy Illes (ed) *Neuroethics: Anticipating the Future, Second Edition*, Oxford University Press.
- Kreitmair, K.** (2017) "Two Concerns Regarding Subjectively Perceived Self-Estrangement", *American Journal of Bioethics – Neuroscience*, 8 (2), 124-125.
- Kreitmair, K.**, Magnus, D., and Cho, M. (2017) "Consent and engagement, security, and authentic living using wearable and mobile health technology", *Nature Biotechnology*, 35 (7), 617-620. [P]
- Kreitmair, K.** and Kruse, K. (2017) "Practical Implications of the Minimally Conscious State Diagnosis in Adults", *Cambridge Quarterly, "Clinical Neuroethics"*, Vol. 26, No. 4, 628-639.

Kreitmair, K., (2016). "Memory Manipulation in the Context of Punishment and Atonement", *American Journal of Bioethics - Neuroscience*, 7 (4), 238-240.

Kreitmair, K., (2016). "Beyond Withdrawing and Withholding", *American Journal of Bioethics*, 16 (7), 22-24.

Kreitmair, K., (2016). "The Confidence Criterion in Big Neuroscience Authorship", *American Journal of Bioethics – Neuroscience*, 7 (1), 24-26.

Blog Posts

Herzog, L., Jonas, S., Kellmeyer, P., **Kreitmair, K.**, Klenk, M., Kuhn, E., and Spiekermann, K., (2019). "Governments Should Back Rebel Tech: Tools To Protect Privacy On the Web Need State Support", 3QuarksDaily (December 2nd, 2019). Available at <https://www.3quarksdaily.com/3quarksdaily/2019/12/governments-should-back-rebel-tech-tools-to-protect-privacy-on-the-web-need-state-support.html>

Kreitmair, K. (2018). "The Seven Principles for Ethical Consumer Neurotechnologies: How to Develop Consumer Neurotechnologies that Contribute to Human Flourishing", *Neuroethics Blog* (April 3rd, 2018). Available at <http://www.theneuroethicsblog.com/2018/04/the-seven-principles-for-ethical.html>

Kreitmair, K. (2017) "FDA recall of pacemaker raises questions of cybersecurity", *Bioethics.net Blog* (September 5th, 2017). Available at <https://www.bioethics.net/2017/09/fda-recall-of-pacemaker-raises-questions-about-cybersecurity/>

Interviews

BBC Radio4, The Digital Human (Radio/Podcast, 2022) – "Implant", <https://www.bbc.co.uk/programmes/m001dws4>

PBS Wisconsin, Here and Now (TV, 2022) – "The Medical Ethics of Treating COVID-19", <https://pbswisconsin.org/watch/here-and-now/medical-ethics-treating-covid-19-9gy0ej/>

Badger Herald (Student Newspaper, 2022) – "COVID-19 Ripple Effect", <https://badgerherald.com/news/2022/02/10/covid-19-ripple-effect-how-resource-shortages-impact-individuals-with-other-life-threatening-conditions/>

Banfield (TV, 2022) – "Hackable Humans: Will Neural Chips Become the New Normal?", <https://www.youtube.com/watch?v=x9QI3Vtn4ys>

Daily Beast (Newspaper, 2022) – "Experts Are Ringing Alarm Bells About Elon Musk's Brain Implants", <https://www.thedailybeast.com/elon-musks-neuralink-inches-closer-to-human-trials-and-experts-are-ringing-alarms>

D. Textbooks

E. UW-Extension and other continuing education publications

F. Book reviews and other critical reviews

G. Computer software

H. Lectures and presentations; conference organization; panels and juries; consultancies ([]) indicates invited; [C] indicates competitive)

Local

Bioethics Learning Community Event – Madison, SMPH (2022) – “On the Ethics of Normothermic Regional Perfusion” [I]

Comprehensive Service Grand Rounds, Department of Ophthalmology and Visual Sciences, UW – Madison, SMPH (virtual, 2021) – panel: “Cataract surgery when the context is complicated” [I]

Medical Student Ethics Committee, UW – Madison, SMPH (virtual, 2021) – “The Role of the Clinical Ethics Consultant” [I]

Undergraduate Neuroscience Society, UW – Madison, SMPH (virtual 2021) – “Neuroscience and Clinical Ethics” [I]

Bioethics Symposium, UW – Madison, SMPH (2021) – (with Harald Schmidt): “Ethical issues in COVID-19 related triage of critical care resources” [I]

Bioethics Symposium, UW – Madison, SMPH (2019) – “Ethics and Pregnancy in Clinical Trials” [I] [panel]

Medical Student Ethics Committee, UW – Madison, SMPH (2019) – “The Minimally Conscious State” [I]

AED Premedical Club, UW – Madison (2019) – “Informed Consent” [I]

History of Science, Technology, and Medicine Brown Bag, UW – Madison (2018) – “Making Theater: Bioethics and Playwriting” [I]

National

American Society for Bioethics and Humanities (Portland, CA 2022) – “The Ethics of Normothermic Regional Perfusion in Cardiac Donation after Circulatory Death” [C] & “Consciousness and Ethics of Cerebral Organoid Research” [C]

Ethics of Artificial Intelligence in Health Care, Medical College Wisconsin (Milwaukee 2022) – “Digital Behavioral Technology, Self-Optimization, and Deep Learning” [I]

Ethics Grand Rounds, UT – Southwestern Medical Center (virtual 2022) – “Ethical Quandaries of Direct-to-Consumer Neurotechnology” [I]

International Neuroethics Society (virtual 2021) – “Consciousness and the Ethics of Cerebral Organoid Research” [C] [poster]

International Neuroethics Society Webinar (virtual 2021) – “Choose Your Own Device: Do-It-Yourself Neuromodulation Panel Discussion” [C]

International American Journal of Bioethics Webinar (virtual 2021) – “Ethics of Human Brain Surrogates Research” [I]

International Neuroethics Society Webinar (virtual 2021) – “Neuroethics in a Time of Crisis” [I] [panel]

American Society for Bioethics and Humanities (virtual 2020) – “Towards a Stepwise Allocation Strategy” [C]

American Society for Bioethics and Humanities (Anaheim, CA 2018) – “Against the Expansion of Criteria for the Minimally Conscious State Diagnosis” [C]

International Neuroethics Society (Washington, DC 2017) – “Seven Requirements for Ethical Consumer Neurotechnology” [I] [Rising Star Plenary Lecture]

International Neuroethics Society (San Diego 2016) – “Ethical Issues in Democratized Online and Mobile Health Counselling” [C] [poster]

American Society for Bioethics and Humanities (Washington, DC 2016) – “Moral Obligations in Citizen Science” [C], “Reductionism in Matters of the Mind” [C] [panel]

International Neuroethics Society (Chicago 2015) – “Existential Concerns over the Use of Beta-Blockers in Managing Performance Anxiety” [C] [poster]

American Society for Bioethics and Humanities (Houston 2015) – “Ethical Issues in Mobile Health and Wearable Technology” [C]

New York Academy of Sciences (New York, NY 2015) “Ethical Issues in Mobile Health and Wearable Technology” [C] [poster]

International

FRIAS Colloquium (Freiburg, GER, June 2023) – “On the Moral Status of ‘Human Brain Surrogates’” [I]

German Alliance for Global Health Research Digital Mental Health Workshop (virtual, November 2022) – “Digital Mental Health and Self-Optimization” [I]

BMBF Research Workshop, Universität Tübingen (Tübingen, GER, August 2022) – “Ethical, legal, and social aspects of human cerebral organoids” [I]

World Congress of Bioethics (Basel, SUI, July 2022) – “Consciousness and the Ethics of Cerebral Organoid Research” [C]

Scientific Congress of the Feminist Approaches to Bioethics (Basel, SUI, July 2022) – “Digital Behavioral Technology and Empowerment” [C]

Neuroethics Networks (virtual 2021) – (with Hank Greely): “Should Cerebral Organoids be Used for Research if They Have the Capacity for Consciousness?” [I] [debate]

LMU Workshop on Digital Behavioural Technology, Vulnerability, and Justice (Munich, GER 2019) – “Digital Behavioral Technology and the Question of Empowerment” [I] [keynote]

Freiburg Institute for Advanced Studies (Freiburg, GER 2019) – “Ethical Issues in Wearable Technology” [I]

Neuroethics Networks (Paris, FRA 2019) – “Comparison of Clinical Decision-Making in Disorders of Consciousness between the US and Europe” [I]

Phenomenology of Medicine and Bioethics International Conference (Stockholm, SWE 2018) – “Epistemological and Existential Implications of Consumer Neurotechnologies” [C]

Neuroethics Networks (Paris, FRA 2018) – “Accessing Consciousness” and “Philosophy and Cognitive Science – Implications for Neuroethics” [I]

Neuroethics Canada Solutions for the Neurotechnology Industry Workshop (Vancouver, CAN 2018) – “Ethical Consumer Neurotechnology” [I]

International Bioethics Retreat (Paris, FRA 2017) – “Wearable and Mobile Health Technology: Consent and Engagement, Deprofessionalisation, and Authentic Living” [I]

Neuroethics Networks (Paris, FRA 2017) – “The Neuroethical Future of Mobile and Wearable Technology” [I]

World Congress of Bioethics (Edinburgh, UK 2016) “Ethical Issues in Neuro- and Mental Health Technologies” [C], “Existential Concerns over the Use of Beta-Blockers in Managing Performance Anxiety” [C] [poster]

Wearable Technologies Conference (Munich, GER 2016) “Ethical Issues in Mobile Health and Wearable Technology” [I]

Neuroethics Conference for Young Researchers (Montreal, CAN 2015) – “Existential Concerns over the Use of Beta-Blockers in Managing Performance Anxiety” [C] [poster]

I. Work submitted for publication but not yet accepted

On the Ethical Permissibility of In Situ Reperfusion in Cardiac Transplantation after the Declaration of Circulatory Death – (submitted to journal ‘American Journal of Bioethics’ in October 2022, 7500 words; Rejected; new submission to Journal of Medical Ethics in November 2022, returned for major revisions, resubmitted March 2023)

Target article length paper that presents an argument for the ethical permissibility of heart procurement for transplant in cases in which the donor is declared dead according to circulatory criteria. There is a particular focus on the distinction between *in situ* versus *ex situ* reperfusion of the heart.

J. Work in progress

The Ethics of Ex Vivo Brain Tissue – (with Kevin Joseph, Vidhya Madapusi Ravi, and Philipp Kellmeyer) Target article length paper that identifies the specific ethical issues associated with live ex vivo brain tissue.

The Ethics of Pervasive Sensing Technologies in the Healthy Brain and Child Development Study (with Camille Nebeker and Pilar Sanjuan) – Target article length paper that evaluates ethical concerns around using pervasive sensing technologies within a research context. In particular, we are looking at a ‘smart onesie’ that tracks biophysiological signals of babies of opioid-using mothers as well as ambient sound, and at ‘smart crib scales’ that monitor biophysiological signals of babies in the crib. We identify a number of ethical concerns of such technologies that are specific to the research context, for example the issue of bystanders who are captured by the sensing technology without having consented to be participants in the study.

TEACHING

Autumn 2023

MEDHIST / PHILOS 534: Ethics and the Brain

MEDHIST 729: Introduction to Bioethics (w/ Paul Kelleher)
MD Curriculum Phase 1: Confidentiality (lecture)
MD Curriculum Phase 1: Research Ethics (lecture)
MD Curriculum Phase 1: Intro to Ethics (lecture)

Spring 2023

MEDHIST 745: Clinical Ethics – Individual and Population considerations [new course]
MEDHIST 558: Guest lecturer (1 lecture)

Autumn 2022

MEDHIST 729: Introduction to Bioethics (w/ Paul Kelleher) [new course]
MD Curriculum Phase 1: Confidentiality (lecture)
MD Curriculum Phase 1: Research Ethics (lecture)
MD Curriculum Phase 1: Intro to Ethics (lecture)

Spring 2022

MEDHIST 730: Topics in Bioethics (w/ Paul Kelleher)
MD Curriculum Phase 1: Human Family Tree (debate w/ Norm Fost)
MEDHIST 558: Guest lecturer (3 lectures)

Autumn 2021

MEDHIST / PHILOS 534: Ethics and the Brain
MEDHIST 699: Independent Study (Thor Larson)
MD Curriculum Phase 1: Confidentiality (lecture, facilitation w/ Gretchen Schwarze)
MD Curriculum Phase 1: Research Ethics (lecture, facilitation w/ Gretchen Schwarze)
MD Curriculum Phase 1: Conflict of Interest (organization and facilitation)

Spring 2021

MEDHIST 730: Topics in Bioethics (w/ Paul Kelleher)
MD Curriculum Phase 1: Advance Care Planning (w/ Gretchen Schwarze)
MEDHIST 558: Guest lecturer (3 lectures)

Autumn 2020

MEDHIST / PHILOS 534: Ethics and the Brain [new course]
MEDHIST 699: Independent Study (Akshith Mandepally)
MD Curriculum Phase 1: Confidentiality (lecture, facilitation w/ Gretchen Schwarze)
MD Curriculum Phase 1: Research Ethics (lecture, facilitation w/ Gretchen Schwarze)
MD Curriculum Phase 1: Intro to Ethics (facilitation)
MD Curriculum Phase 1: Resource Allocation (facilitation)

Spring 2020

MEDHIST 730: Topics in Bioethics (w/ Paul Kelleher)
MEDHIST 558: Ethical Issues in Healthcare

Autumn 2019

Maternity Leave 10/19 – 12/19
MD Curriculum Phase 1: Intro to Ethics (facilitation)
MD Curriculum Phase 1: Confidentiality (facilitation)

Spring 2019

MEDHIST 730: Topics in Bioethics (w/ Paul Kelleher)
MEDHIST 558: Guest lecturer (3 lectures)
Hospital Ethics Seminar: Do Not Resuscitate/No CPR (w/ Gretchen Schwarze and Bill Ehlenbach)

Autumn 2018

MD Curriculum Phase 1: Conflict of Interest (facilitation)

MD Curriculum Phase 1: Resource Allocation (facilitation)

MEDHIST 231: Guest lecturer (2 lectures)

PRIOR TEACHING

(At Stanford)

Spring '16 – PHIL 71Q: Emerging Issues in Neuroethics

Winter '14, '15, '16 – THINK 11: Bioethics of New Technology

Autumn '14 – ESF 8: Recognizing the Self and Its Possibilities

Spring '14 – THINK 41: The Conscious Mind

Winter '13 – PHIL 90S: Philosophical Dimensions of Cognitive Science

Spring '10 – PHIL 23N: Neuroscience and the Self

Winter '09 – PHIL 42: Philosophy through Theater

(At Sookmyung University, S. Korea)

Summer '14 – Introduction to Epistemology

PhD DISSERTATION COMMITTEES

Shanna Slank – “Essays on Ignorance and Living Well” [Philosophy]

SERVICE

To Department

2022 – present: Association of Bioethics Program Directors Representative

2022 – present: Annual SMPH Bioethics Symposium Planning Committee

2021 – present: UW SMPH Path of Distinction in Bioethics Co-Director

To University

2018 – present: Clinical Ethics Consultant, UW Hospital and American Family and Children’s Hospital

2022 – present: Vice-Chair Ethics Committee, UW Hospital and American Family and Children’s Hospital

2018 – 2022: Ethics Committee Member, UW Hospital and American Family and Children’s Hospital

2018 – present: Research Ethics Consult Service, Ad Hoc Member, UW – Madison

To Profession

2023: Program Committee; Computer Ethics: Philosophical Enquiry Conference 2023

2017 – 2018: Co-Chair, Leadership Council, International Neuroethics Society.

2016 – 2021: Emerging Issues Task Force, International Neuroethics Society.

2016 – present: External Reviewer for *American Journal of Bioethics*, *American Journal of Bioethics – Neuroscience*, *Neuroethics*, *Cambridge University Press*, *Cambridge Quarterly of Healthcare Ethics*, *Philosophy and Technology*, *Review of Social Economy*, *Journal of Intensive Care Medicine*, *WHO Bulletin*, *CDMRP*