

Prepared by the  
Neuroethics research unit  
at the IRCM

Préparé par l'unité de  
recherche en neuroéthique  
de l'IRCM

neuroethics@ircm.qc.ca  
Twitter: @neuroethicsMTL

### Inside this issue:

Profile **1**  
Profil

Announcements **2**  
Annonces

Neuroethics **5**  
literature  
Littérature en  
neuroéthique

Resources **6**  
Ressources

### Editorial team / Équipe éditoriale

John Aspler,  
Editor / Éditeur

Matthew Sample  
Editor / Éditeur

Eric Racine, PhD,  
Editor-in-chief/  
Éditeur en chef



IRCM  
INSTITUT DE RECHERCHES  
CLINIQUES DE MONTRÉAL

# BRAINSTORM

A newsletter about ethics, neuroscience, and society  
Un bulletin sur l'éthique, les neurosciences et la société



Brainstorm

Vol. 11 No. 02  
February 1 / 1 février 2018

## Profile | Profil



**Eran Klein, MD, PhD**, is a practicing neurologist with a specialty in dementia and PhD in philosophy. He splits his time between the Portland VA Health Care System and Oregon Health and Sciences University in Oregon and the University of Washington's Center for Sensorimotor Neural Engineering (CSNE) in Seattle. His research includes designing and conducting qualitative studies of potential end users of brain implant technologies, such as brain-computer interfaces (BCI) for spinal cord injury and stroke and deep brain stimulation (DBS) for depression and obsessive compulsive disorder (OCD). He helps lead the Ethics Thrust at the CSNE which focuses, among other things, on integration of ethicists with neuroscientists.

Eran's work has explored how BCI and related technologies may challenge established notions of responsibility, identity, and privacy. As a clinician, he has been particularly interested in how different forms of brain modulating technologies (e.g., closed-loop DBS) might change traditional notions of the patient-clinician relationship. As a researcher, he has also focused on specific challenges that neurotechnologies may present for achieving meaningful research informed consent.

**Statement on Neuroethics:** Neuroethics has brought many of the lessons and methodological resources from the field of bioethics (and its multiple associated disciplines, such as philosophy) to new problems in neuroscience and brain-related clinical specialties. One of the key challenges for the future of neuroethics is to be close enough to the science to develop a deep and working understanding of its future possibilities but without losing critical distance on how it may change individuals and society.

### Selected Publications:

**Klein E**, Brown T, Sample M., Truitt A, Goering S.: Engineering the Brain: Ethical Issues and the Introduction of Neural Devices. *Hastings Center Report* 45, no. 6: 1-10, 2015

**Klein, E**, and Ojemann, J. Informed Consent in Implantable BCI Research: Identification of Research Risks and Recommendations for Development of Best Practices. *Journal of Neural Engineering* 13, no. 4, 2016.

**Klein, E** and Goering, S, Gagne, J, Shea, CV, Franklin, R, Zorowitz, S, Dougherty, DD, Widge, AS. [Brain-computer interface-based control of closed-loop brain stimulation: attitudes and ethical considerations](#). *Brain-Computer Interfaces*. Published online July 18, 2016.

**Website:** <http://www.csne-erc.org/profile-detail/397>

If you would like to post any events, announcements, or news of interest please contact us at [neuroethics@ircm.qc.ca](mailto:neuroethics@ircm.qc.ca) (subject line: **Brainstorm Events and Announcements**)



## Announcements | Annonces

### Call for Applications: PhD-scholarships in Neurophilosophy, LMU Munich

The Graduate School of Systemic Neurosciences (GSN) at LMU Munich invites applications for several PhD scholarships in Neurophilosophy. The GSN is the teaching entity for the Munich Center of Neurosciences - Brain & Mind (MCN). Through creating an interdisciplinary network of research the GSN provides a stimulating environment for students and faculty to produce novel formulations of current concepts and theories. Successful applicants will be affiliated with the Research Center for Neurophilosophy and Ethics of Neurosciences (<http://www.neuro.philosophie.lmu.de>) at the GSN.

Projects in the research center fall in the following areas:

- philosophy of cognitive neuroscience (explanation, reduction)
- philosophy and cognitive science of agency (mental causation, free will, moral psychology, abilities)
- philosophy and cognitive science of reasoning (e.g. deductive and non-deductive reasoning, logic and neural networks, decision making)
- ethics of neuroscience (research ethics, enhancement)
- philosophy of perception
- philosophy and social cognition

**Submission deadline:** February 15

[Click here for more information.](#)

### Call for Applications: AMS History of Medicine and Healthcare Doctoral Completion, Post-Doctoral Fellowships and Project Grants

The History of Medicine and Healthcare Program, launched by AMS in 2015, was developed to promote scholarship, teaching and public interest in history of health care, disease and medicine. In 2018, AMS will increase our commitment to this program with the creation of the AMS Doctoral Completion Awards. Two awards of 25,000 each will be awarded annually with the purpose of supporting full-time dissertation writing leading to dissertation completion for a doctoral student in the humanities or social sciences, writing on a history of medicine/healthcare topic. The Doctoral Completion Grant will be awarded in addition to the current Project Grants and Postdoctoral Fellowships administered by the Nova Scotia Health Research Foundation.

- History of Medicine Doctoral Completion Grants designed to support full-time dissertation writing leading to dissertation completion for a doctoral student in the humanities or social sciences, writing on a history of medicine/healthcare topic. Applications can be found on the NSHRF website. Applications due in April.
- Post-Doctoral candidates should be embarking on a period of full time post-PhD degree studies and wish to add to their experience by engaging in research in Canada or abroad. Application information can be found on the NSHRF website. Applications due in April.
- The AMS History of Medicine Project Grant is designed to support small budget proposals on projects featuring the history of medicine. Application information can be found on the NSHRF website. Applications due in April.

**Application Deadline:** April 2018

[Click here for more information.](#)

If you would like to post any events, announcements, or news of interest please contact us at [neuroethics@ircm.qc.ca](mailto:neuroethics@ircm.qc.ca) (subject line: **Brainstorm Events and Announcements**)



## Announcements | Annonces

### Call for Applications: Faculty Position, History of Science and Technology, Ecole polytechnique fédérale de Lausanne

The College of Humanities at EPFL invites applications for a junior faculty position. We seek individuals who will develop and drive an interdisciplinary research program at the intersection of the humanities and engineering and who are dedicated to teaching at the undergraduate and graduate levels.

The holder of this Chair must be a specialist in the history of science and technology of the modern period (19th and 20th centuries), including the recent past, who studies the evolution of science and technical knowledge in connection with major social, economic and/or political changes. The holder of this position will carry out her or his research on the epistemology of exact sciences and life sciences, on scientific knowledge, and also on know-how and technical objects (on their conception, their fabrication and their different uses), aiming to understand the transmission and the worldwide circulation of this knowledge and these objects, highlighting in the process the role of experts together with the more general implication of citizens in the dissemination and circulation of such scientific knowledge.

**Application deadline:** March 19

[Click here for more information.](#)

### Call for Applications: Postdoctoral Fellowships, Centre de recherche en éthique (CRÉ), Université de Montréal

La mission du CRÉ est de contribuer à la recherche interdisciplinaire et à la qualité de la formation dans les domaines de l'éthique fondamentale et appliquée. Nous encourageons les applications qui proviennent de chercheurs/ses oeuvrant dans les axes de recherche principaux du CRÉ : éthique fondamentale, éthique et politique, éthique et santé, éthique et économie, éthique et environnement. Nous recevons également les candidatures provenant de disciplines diverses, comme l'éthique et la délibération, l'éthique animale, l'éthique de l'intelligence artificielle ou autres, pourvu que leur sujet de recherche soit en rapport direct avec des problématiques éthiques. Le CRÉ est un groupe de recherche québécois interuniversitaire et bilingue. Les candidat(e)s doivent avoir une maîtrise du français et de l'anglais qui leur permette de participer aux activités du CRÉ.

#### Règles générales :

- Pour postuler, il faut avoir obtenu un doctorat après le 30 avril 2013.
- Il faut également avoir soutenu la thèse au plus tard le 1er septembre 2018.
- Nous encourageons vivement les candidat(e)s à présenter des demandes de financement auprès d'organismes externes comme le FRQ-SC ou le CRSH.

**Application deadline:** avril 30

[Click here for more information.](#)

If you would like to post any events, announcements, or news of interest please contact us at [neuroethics@ircm.qc.ca](mailto:neuroethics@ircm.qc.ca) (subject line: **Brainstorm Events and Announcements**)



## Announcements | Annonces

### Call for Applications: Project Manager - Science, Technology, and Society (STS) Program, Tisch College, Tufts University

*Science, Technology, and Society (STS) is an interdisciplinary program in the College of Arts & Sciences at Tufts University. STS examines science and technology in their social and political context. The program has over 40 faculty affiliates from across the schools and departments of Tufts University and offers a major and minor.*

*This position will be split between several functions. One part of the job is to serve as Program Manager for the Science, Technology, and Society program, including long-range strategic program planning; budget, salaries, and reimbursements; event programming and planning (including lecture series); public outreach/marketing/communications; student services/outreach/activities; and program assessment. A second component is to serve as Project Manager for the Metric Geometry and Gerrymandering Group based at Tisch College of Civic Life, including seeking grant support; media strategy and coordination; conference organization and planning; managing publications. Finally, the position will entail management of grant-funded activities including website design; outreach; conference organization and planning; professional communication; study coordination (including IRBs). All functions will be carried out in collaboration with the Director and Principal Investigators.*

[Click here for more information.](#)

### Call for Applications: Undergraduate and Graduate Awards, MITACS

*Mitacs is accepting applications for competitive international research opportunities for student travel from Canada. We recommend that students apply by May 2018 for travel planned in Fall 2018.*

*The Globalink Research Award provides \$6,000 for senior undergraduate and graduate students to undertake research projects abroad. Projects last 12–24 weeks and all disciplines are eligible.*

*New destinations include:*

- *Australia*
- *European Union member countries*
- *Japan*
- *Norway*
- *Saudi Arabia*
- *United Kingdom*
- *United States*

*The full list of destinations is available on our website, along with resources for finding a professor abroad, suggested application timelines, and other program information.*

*If you have any questions, contact Mitacs International at [international@mitacs.ca](mailto:international@mitacs.ca).*

[Click here for more information.](#)



# Literature | Littérature

## ARTICLES

[When 'Sanctity of Life' and 'Self-Determination' clash: Briggs versus Briggs \[2016\] EWCOP 53 - implications for policy and practice.](#)

Kitzinger J, Kitzinger C, Cowley. J Med Ethics. 2017 Jul; 43(7): 446-9.

[How Should Physicians Make Decisions about Mandatory Reporting When a Patient Might Become Violent?](#)

Barnhorst A, Wintemute G, Betz ME. AMA J Ethics. 2018 Jan 1; 20(1): 29-35.

[Effect of educational intervention on attitudes toward the concept of criminal responsibility.](#)

Shiina A, Niitsu T, Sato A, Omiya S, Nagata T, Tomoto A, Watanabe H, Igarashi Y, Iyo M. World J Psychiatry. 2017 Dec 22; 7(4): 197-206.

[Would you be willing to zap your child's brain? Public perspectives on parental responsibilities and the ethics of enhancing children with transcranial direct current stimulation](#)

Wagner K, Maslen H, Oakley J, Savulescu J. AJOB Empir Bioeth. 2018 Jan 17: 0.

[Help, hope, and hype: Ethical dimensions of neuroprosthetics.](#)

Clausen J, Fetz E, Donoghue J, Ushiba J, Spörhase U, Chandler J, Birbaumer N, Soekadar SR. Science. 2017 Jun 30; 356(6345): 1338-9.

[From Healthcare to Warfare and Reverse: How Should We Regulate Dual-Use Neurotechnology?](#)

Ienca M, Jotterand F, Elger BS. Neuron. 2018 Jan 17; 97(2): 269-74.

[Neurotechnology: Current Developments and Ethical Issues.](#)

Müller O, Rotter S. Front Syst Neurosci. 2017 Dec 13; 11: 93. eCollection 2017.

## NEWS AND SOCIAL MEDIA

[Neurodevelopmental Disability on TV: Neuroethics and Season 1 of ABC's Speechless](#)

Aspler J and Cascio C. The Neuroethics Blog. January 16, 2018.

[Addicted to your smartphone? How to start kicking the habit](#)

CBC News. January 14, 2018

[Province should fund psychotherapy by non-doctors, says provincial agency on health quality](#)

Teotonio I. The Toronto Star. January 15, 2018.

[Minister for loneliness appointed to continue Jo Cox's work](#)

BBC News. January 17, 2018.

[1 Son, 4 Overdoses, 6 Hours](#)

Seelye KQ. The New York Times. January 21, 2018.

[Dementia, Advance Directives & MAiD](#)

Romano V. Impact Ethics. January 23, 2018.

[Makoto Kageyama discusses mental health issues in Japan and anime](#)

Kaiser V. Anime Feminist. January 24, 2018.

[How 'provocative clothes' affect the brain – and why it's no excuse for assault](#)

Burnett D. The Guardian. January 25, 2018.

[Why We Forget Most of the Books We Read](#)

Beck J. The Atlantic. January 26, 2018.





## Resources | Ressources

[University of British Columbia, Neuroethics Canada](#)

[Neuroethics at the University of Pennsylvania](#)

[International Neuroethics Society](#)

[Neuroethics Research Unit / L'Unité de recherche en neuroéthique](#)

[Journal of Ethics in Mental Health](#)

[Novel Techethics](#)

[Neuroethics at the Stanford Center for Biomedical Ethics](#)

[Berman Institute of Bioethics' Program in Ethics and Brain Sciences](#)

[Centre interfacultaire en bioéthique et sciences humaines en médecine](#)

[The Neuroethics Blog](#)

[Emory Program in Neuroethics](#)

[American Journal of Bioethics Neuroscience](#)

[Neuroethics Women \(NEW\) Leaders](#)



**IRCM**

INSTITUT DE RECHERCHES  
CLINIQUES DE MONTRÉAL

Fonds de la recherche  
en santé

Québec



**CIHR IRSC**

Canadian Institutes of  
Health Research    Institut de recherche  
en santé du Canada

Brainstorm 110, avenue des Pins Ouest, Montréal (Québec) H2W 1R7

514-987-5723 • [neuroethics@ircm.qc.ca](mailto:neuroethics@ircm.qc.ca)

If you would like to be removed from our newsletter list,  
please email [neuroethics@ircm.qc.ca](mailto:neuroethics@ircm.qc.ca) with "Newsletter-Remove" in the subject line.

Si vous souhaitez ne plus recevoir ce bulletin,  
veuillez écrire un courriel à [neuroethics@ircm.qc.ca](mailto:neuroethics@ircm.qc.ca) avec le titre « Enlever Bulletin » comme sujet.