LORINA NACI

Assistant Professor of Psychology
School of Psychology & Global Brain Health Institute
Trinity College
Dublin 2
Ireland

E-mail: NACIL@TCD.IE
Phone: +353 (0)78 688 5642
Website: www.lorinanaci.org
Nationality: Canada, UK, Albania

QUALIFICATIONS

2005 – 2011 **PhD in Experimental Psychology,** University of Cambridge, UK.
Dissertation Title: Mechanisms for the semantic representation of everyday objects in the human ventral stream.
Supervisors: Professor Lorraine K. Tyler and Dr. Richard Henson

2002 – 2004 **MSc (Hons) in Artificial Intelligence**, University of Georgia, USA.
Thesis Title: Software to measure rambling, cognitive difficulty and degree expression in schizophrenic speech.
Supervisor: Dr. Michael Covington

1998 – 2002 **BA (Hons) in Cognitive Science**, University of Georgia, USA.

1998 – 2002 **BFA (Summa Cum Laude) in Fine Arts,** University of Georgia, USA.

EMPLOYMENT HISTORY

05/2017— **Assistant Professor**, School of Psychology and Global Brain Health Institute, Trinity College Dublin, Dublin, Ireland.

2016 –04/2017 **Adjunct Research Professor**, Department of Psychology, Brain and Mind Institute, Western University, London, Canada.

2011 – **Postdoctoral Fellow**, Brain and Mind Institute, Western University, London, Canada.

2010 – 2011 **Investigator Scientist**, Medical Research Council Cognition and Brain Sciences Unit, Cambridge, UK.

OTHER APPOINTMENTS

2017— Governing Board of the Global Brain Health Institute, USCF & TCD
2017— Review panel, Cooke International Graduate Awards to Oxford, Cambridge Universities, UK
2017— Scientific Advisor for NeuroBlot Inc., personalized app-based cognitive screening

INDIVIDUAL AWARDS

2018 – Selected for the **Women in Science Leadership** workshop, in Kigali Rwanda, by the Canadian Institute for Advanced Research.

2017 – **L'Oréal-Unesco for Women In Science International Rising Talents Award**, L'Oréal Foundation & UNESCO International Organization (1 of 15 awardees from 9000 applicants globally; the only North American awardee), France.

2017 – **Academic Achievement Award,** *Albanian Canadian Excellence Society,* Canada.

2016 – **L'Oréal for Women in Science Research Excellence Fellowship, with the support of the Canadian Commission for UNESCO** (1 of 2 fellowships in Canada; 2% success rate).

2016 – Selected for the **Women in Science Leadership** workshop, in Banff Canada, by the Canadian Institute for Advanced Research.

2016 – **Postdoctoral Scholar of the Year**, *Western University*, Canada.

2015 – **Distinguished Person of the Year**, *Albanian Diaspora of Canada,* Canada.

2014 – **One of Best 51 Discoveries Since 1878**, *Western University*, Canada**.**

2004 – '10 **Graduate Fellowship** ($300,000; 3% success rate), *Jack Kent Cooke Foundation*, USA**.**

2010 – **Travel Grant Award** ($1500), *Brain* (the Journal), UK.

2009 – **Travel Grant Award** ($1500), *Brain* (the Journal), UK.

2008 – **Marie Curie Trainee Award** ($10,000), *Marie Curie School for Neuroscience,* Italy**.**

2008 – **Clare College Graduate Student Grant** (£1,000), *Clare College, University of Cambridge*, UK.

2008 – **Grindley Research Grant** (£2,000), *Department of Experimental Psychology*, *University of Cambridge*, UK**.**

2007/2008 **Cambridge Philosophical Society Travel Grant** (£500), University of Cambridge, UK.

2007 – **Graduate Presentation Award** (2% success), *Cognitive Neuroscience Society*, USA.

2006 – **Travel Fellowship Award** ($750), *Organization for Human Brain Mapping*, USA.

2006 – **Grindley Travel Grant** (£800*), Experimental Psychology Society*, UK.

2006 – **Chibnall Travel Grant** (£1,000)**,** *Clare College, University of Cambridge*, UK.

2003 – **Richard B. Russell Leadership Fellow,** *University of Georgia (UGA)*, USA.

2002 – **MSc Research Award** ($50,000), *GlaxoSmithKline Inc*., UK.

2002 – **All-Americal Scholar Collegiate Award**, *University of Georgia*, USA.

2001/2002 **Presidential Scholar**, *University of Georgia*, USA.

2001 – **Phi Beta Kappa Honour Society**, *University of Georgia*, USA.

2000 – **Foundation Fellowship Award** ($100,000; 0.5% success rate), *UGA*, USA.

GRANTS UNDER CONSIDERATION

2017 – **Canadian Institute for Health Research [$410,000 applied for]**
Role: Principal Investigator
Principal Investigators: **Lorina Naci**, Penny Macdonnald, Ali Khan, Lena Palaniyappan

Title: Neuroimaging investigations of functional and structural signatures of Parkinson's disease.

ACTIVE GRANTS

2017–'21 **Trinity Provost Scholarship Award [€119,072]**
Role: Principal Investigator; Grant holders: Lorina Naci
Title: Using dynamic functional Magnetic Resonance Imaging to Develop Early Biomarkers of Alzheimer's Disease

2017–'19 **Global Brain Health Institute Project Grant [$250,000]**
Role: Principal Investigator*;* Grant holders: Lorina Naci, Brian Lawlor
Title: Prevent Dementia

2017–'19 **Trinity Foundation [€93,000]**
Role: Principal Investigator*;* Grant holders: Lorina Naci, Brian Lawlor
Title: Prevent Dementia

2017–'19 **PREVENT UK [€80,000]**
Role: Principal Investigator*;* Grant holders: Lorina Naci, Brian Lawlor
Title: Prevent Dementia

2017-'19 **Welcome Trust ISSF for International Collaborations [€2,550]**
Role: Principal Investigator*;* Grant holders: Lorina Naci

2017–'22 **Welcome Trust Institutional Strategic Support Fund [€48,000]**
Role: Principal Investigator; Grant holder: Lorina Naci
Title: Neuroimaging-based Measures of Brain Health in Comatose Patients.

2017–'22 **School of Psychology, Trinity College Dublin [€63,039]**
Role: Principal Investigator; Grant holder: Lorina Naci
Using Neuroimaging and Portable Technologies to Develop Music Based Title: Interventions for Brain-injured Patients

2017–'19 **L'Oréal Foundation France and UNESCO International [€15,000]**
Role: Principal Investigator; Grant holder: Lorina Naci
Title: For Women in Science Research Excellence Fellowship.

2016–'18 **L'Oréal Foundation Canada and Canadian Commission for UNESCO [$20,000]**
Role: Principal Investigator; Grant holder: Lorina Naci
Title: International Rising Start Award.

RESEARCH ACTIVITIES

Media/contributions to the public understanding of science (reverse chronological order)

My work has attracted international attention from the media and has been discussed on TV, radio, in print and online.

Television

Includes: •CTV News •NHK Japan Global News •ONMI 1 •Top Channel

Radio

Includes: •CBC Quirks and Quarks •Radio Canada International •ABC News Radio •Newstalk San Francisco •BYU Radio on Sirius XM •AM 890 •The John Bolton Show •The Pulse •W Radio Miami

Newsprint

Includes: •Irish Times •Irish Independent •National Post •The New Scientist •Macleans •La Recherche •The Globe and Mail •The Toronto Sun •La Republica •International Business Times •Los Angeles Times •The Times of India •Corriere della Sera •The Daily Mail •The Chicago Tribune •The London Free Press •China Youth Daily •To Vima Greece

Online

Includes: •Science •Nature •BBC •The Times •NBC News •Fox News •Reuters •Sciences et Avenir •Medpage Today •Discovery News •The Verge •IFL Science •JAMA Author Interview •The Huffington Post •The National Post •Australia International Business Times •Google News Today •The Agenda with Steve Parkin

Scientific Reporting

Scientific Reporter for the *Canadian Institute for Advanced Research* Grant Consortium. London, UK, 2016.

Scientific Reporter for the *Canadian Institute for Advanced Research* Grant Consortium. Toronto, Canada, 2014.

Peer-Reviewer for Scientific Journals

•Journal of Consciousness Studies •Intensive Care Medicine •Journal of the Neurological Sciences •New England Journal of Medicine •Brain •Annals of Neurology •BMC Neurology •Cerebral Cortex •Journal of Experimental Psychology •NeuroImage •Frontiers in Human Neuroscience •AJOB Empirical Bioethics

Scientific Reviewer

Brain-Computer Interface 7th International Meeting, California, USA•Cambridge University Press •The Organization for Human Brain Mapping Annual Meeting •Thesis report for the BioSciences Master program at Ens de Lyon, France •Decoder Grant Report, University of Maastricht •Decoder Grant Report, Wurzburg
University •Decoder Grant Report, University of Liege

Editor-in-chief of BlueSci Science Magazine at Cambridge University

– Managed team of 20 editors in 8 weeks turn-around production cycle of the 32-page glossy magazine, with 5000 copies in print edition.
– Organized science media training seminars with invited speakers from the science media, including from *Nature Network* and the *New Scientist*.

Conference/Symposium Co-organizer

2018 – Co-organizer of joint conference between the Alzheimer's Association of the USA and the 3rd Annual Meeting of the Global Brain Health Institute, Argentina, April 2018
2016 – "Preparing for the Academic Job Market," Western University, London, Canada.
2013 – "Ethical implications of detecting covert awareness in disorders of consciousness," at the **Association for the Scientific Study of Consciousness**, San Diego, USA.
2008 – "Large scale brain networks underlying object recognition" at the **Cognitive Neuroscience Society Annual Meeting**, San Francisco, USA.

Outreach

2014 – Organizer of the Brain and Mind Institute Open Day
2013 – Organizer of the Brain and Mind Institute Brain Bee competition
2012 – Organizer of the Brain and Mind Institute Open Day

INVITED LECTURES

International

"A Cross-section of the Preserved Mental Life in Patients Thought to Lack Consciousness" Invited speaker at the Neuroethics Network Meeting, ICM, The Brain and Spine Institute, Paris (France, 06/2018)

"fMRI brain mapping in patients with prolonged disorders of consciousness." Invited speaker at the 21st European Congress of Physical and Rehabilitation Medicine (Lithuania, 05/2018)

"Using Narratives to Understand Human Conscious Experience." Guest Lecture at the Division of Anesthesia, Addenbrookes Hospital University of Cambridge (UK, 02/2018)

"Functional diversity of brain networks supports consciousness and intelligence." Oliver Zangwill Lecture, Department of Psychology, University of Cambridge, UK, February 2018.

"Gender equity in Leadership." Point Reyes, California, October 2017.

"The neural machinery of conscious cognition: Converging evidence from anesthesia-induced unconsciousness, severe brain injury and intellectual prowess. Organization for Human Brain Mapping. Vancouver, Canada. June 2017.

"The functional neuroimaging of conscious information processing." University of Geneva. July 1st 2016.

"Real-world cognition in the healthy and disordered brain." Cambridge Centre of Aging and Neuroscience, University of Cambridge. May 2016.

"State-of-the-art neuroimaging techniques for assessing and communicating with severely brain-injured persons." American Philosophical Association. San Francisco. March, 2016.

"Towards naturalistic approaches for detecting consciousness with neuroimaging." Association for the Scientific Study of Consciousness. Paris, France. June, 2015.

"Detecting and interpreting conscious experiences in behaviorally non-responsive populations." Towards a Science of Consciousness'. Helsinki, Finland. June, 2015 [Declined due to timing conflict.]

"Using naturalistic paradigms to probe conscious experience." Medical Research Council – Cognition and Brain Sciences Unit. Cambridge, UK. December, 2014.

"Using language for the detection of consciousness in non-responsive patients." DECODER Consortium Meeting. Rome, Italy. March, 2012.

"Deployment of brain-computer interfaces for the detection of consciousness in non-responsive patients." DECODER Consortium Meeting. Brussels, Belgium. March, 2011.

"Neural gestures to communicate with vegetative state patients." University of South Carolina. South Carolina, USA. 2010.

"Are senses enough for sense?" The Cognitive Neuroscience Society Meeting. San Francisco, USA. April, 2008.

"Recurrent bottom-up and top-down interactions during multi-sensory object processing" The Cognitive Neuroscience Society. New York City, USA. 2007.

"Multi-sensory integration." Experimental Psychology Society Annual Meeting, Edinburgh, UK. June, 2007.

Local

"Neurohumanities at Trinity College Dublin." National Institutional Strategic Support Fund, Public Patient Involvement Meeting, University College Dublin, October 2017.

Using Naturalistic Stimulation fMRI for Diagnosis and Prognosis in Clinical Populations. Queens University Belfast, Northern Ireland, UK. Upcoming, December 13th 2017.

Detecting preserved consciousness and communicating with severely brain-injured patients misdiagnosed to be in a vegetative state. National Rehabilitation Hospital, Dublin, Upcoming, October 12, 2017.

"Preserved real-world cognition and consciousness in non-responsive patients," Trinity College & Global Brain Health Institute, Brain Health Network Seminar, Trinity College Institute of Neuroscience, Dublin, June 2017.

"Advanced neuroimaging in the treatment and rehabilitation of concussion." St James Hospital, Dublin, May, 2017.

"Using anesthesia-induced loss of consciousness to identify biomarkers of conscious awareness in the healthy human brain." Rotman Institute of Philosophy. London, Canada. March, 2015.

"Detecting conscious experiences in patients with disordered consciousness." The Brain and Mind Institute. London, Canada. January, 2015.

"A common neural code for similar conscious experiences in healthy and brain injured individuals." Rotman Institute of Philosophy. London, Canada. September, 2014.

"Anesthesia-induced loss of consciousness." Skience. Collingwood, Canada. March, 2014.

"A new fMRI approach for establishing conscious awareness and communication in behaviourally non-responsive patients." University Hospital Critical Care Rounds. London, Canada. February, 2014.

"Using fMRI to assess conscious awareness in patients with disorders of consciousness – practical considerations." Society for the Scientific Study of Consciousness. San Diego, USA. July, 2013.
"Combining fMRI and psychophysiological measures to study conscious awareness in non-responsive patients." Skience. Collingwood, Canada. March, 2013.

"Understanding objects: are the senses enough for sense?" Behavioural Neuroscience Seminars, University of Cambridge. Cambridge, UK. 2007.

PEER-REVIEWED PUBLICATIONS AND CHAPTERS

* = Corresponding/Senior Author

1. Irwin K, Sexton C, Daniel T, Lawlor B, **Naci L*** Healthy Aging and Dementia: Two Roads Diverging in Midlife? *Submitted*

2. **Naci L**, Haugg A, MacDonald A, Anello M, Houldin E, Naqshbandi S, Gonzalez-Lara LE, Arango M, Harle C, Cusack R, Owen AM. Functional diversity makes us smarter. Converging evidence from anesthesia-induced unconsciousness, brain injury and intelligence. *Under Review*

3. Graham M, Doherty CP, **Naci L.***Using neuroimaging to detect covert awareness and determine prognosis of comatose patients: informing surrogate decision-makers of individual patient results. Seminars in Neurology. *In Press*

4. Haugg A, Cusack R, Gonzales-Lara L, Sorger B, Owen AM, **Naci L*** (2018) Do patients thought to lack consciousness retain the capacity for internal as well external awareness? Frontiers in Neurology. *Accepted for publication*

5. Graham, M., Owen, A. M., Weijer, C. **Naci, L.*** Using neuroimaging to uncover awareness in brain-injured and anesthetized patients. Frontiers in Bioscience *In Press*

6. Graham M, Owen AM, Cipi, K. Weijer C., **Naci L***. (2017) Minimizing the harm of accidental awareness under general anesthesia. Lessons from patients misdiagnosed as being in a vegetative state. Anesth Analg. Sep 14. doi: 10.1213/ANE.0000000000002495. [Epub ahead of print]

7. Abdalmalak A., Milej D., Diop M., Shokouhi M., **Naci L.**, Owen A.M., Lawrence K. St. (2017) Can time-resolved NIRS provide the sensitivity to detect brain activity during motor imagery consistently? Biomedical Optics Express. *In Press*

8. Gibson, R. M., Chennu, S., Fernández-Espejo, D., **Naci. L**., Owen, A. M, Cruse, D. (2017) Reply to "Is command following unrelated to top-down attention in consciousness disorders?" Annals of Neurology. 81(1):160-161.

9. Sinai L., Owen AM, **Naci L*** (2017). Mapping preserved real-world cognition in brain-injured patients. *Frontiers in Bioscience*. 22:815-823

10. **Naci L**, Sinai L, Owen AM. (2017) Detecting and interpreting conscious experiences in behaviorally non-responsive patients. NeuroImage. 145(Pt B):304-313. **Selected to feature on The Atlas of Science.**

11. Gibson RM, Chennu S, Fernández-Espejo D, **Naci L**, Owen AM, Cruse D. (2016) Somatosensory attention identifies both overt and covert awareness in disorders of consciousness. Annals of Neurology 80(3):*412-23*.

12. **Naci L.**, Graham M, Owen AM, Weijer C. (2016) Covert narrative capacity: A cross-section of the preserved mental life in patients thought to lack consciousness. Annals of Clinical and Translational Neurology. 1:61–70. **Selected for written and audio review is Practical Reviews in Neurology**.

13. Owen AM, **Naci L**. (2016) Decoding thoughts in disorders of consciousness. In M. Monti and W. G. Sannita (Eds.) Brain Function and Responsiveness in Severe Disorders of Consciousness. Springer.

14. Owen AM, **Naci L**. (2016) Decoding thoughts in behaviourally non-responsive patients. In Sinnott-Armstrong (Ed). Finding Consciousness. Oxford University Press.

15. Peterson A, Cruse D, **Naci L**, Weijer C, Owen AM (2015). Risk, diagnostic error, and the clinical science of consciousness. NeuroImage: Clinical. 7: 588–597.

16. Graham M, Weijer C, Cruse D, Fernandez-Espejo D, Gofton T, Gonzalez-Lara L, Lazosky A, **Naci L**, Norton L, Peterson A, Speechley NK, Young B, Owen AM. (2015) An ethics of welfare for behaviourally non-responsive patients with covert awareness. AJOB Neuroscience. 6(2), 31–41.

17. MacDonald A, **Naci L**, MacDonald P, Owen AM. (2015) Anesthesia and neuroimaging: Investigating the neural correlates of unconsciousness. TICS. 19(2): 100–107.

18. **Naci L**, Taylor KI, Cusack R, Tyler LK. (2015) Are the senses enough for sense? Early high-level feedback shapes our comprehension of multisensory objects. In S. Zhuanghua and H. J. Müller (Eds.) Multisensory perception and action: psychophysics, neural mechanisms, and applications. eBook. Frontiers Research Topics.

19. **Naci L**, Cusack R, Anello M, Owen AM. (2014) A common neural code for similar conscious experiences in different individuals. PNAS. 111(39):14277–82. **Selected to feature on Science and Nature Journal websites. Nominated for the William James Prize for Contributions to the Study of Consciousness.**

20. Peterson A, Norton L, **Naci L**, Owen AM, Weijer C. (2014) Toward a Science of Brain Death. Am J Bioeth. 14(8):29-31.

21. Weijer C, Peterson P, Webster F, Graham M, Cruse C, Fernández-Espejo D, Gofton T, Gonzalez-Lara LE, Lazosky A, **Naci L**, Norton L, Speechley K, Young B, Owen AM. (2014) Ethics of neuroimaging after serious brain injury. BMC Medical Ethics 15, 41.

22. Graham M, Weijer C, Peterson A, **Naci L**, Cruse C, Fernández-Espejo E, Owen AM. (2014).Acknowledging awareness: informing families of individual research results for patients in the vegetative state. J Med Ethics Published Online First: [please include 30/07/2014] doi:10.1136/medethics-2014-102078.

23. **Naci L**, Owen AM. (2013) Making every word count for vegetative patients. JAMA Neurology 70(10), 1235-41. **Selected by the Journal for editorial coverage, open access, and author video interview on JAMA website. Named one of Best 51 discoveries at Western University since 1878.**

24. **Naci L**, Cusack R, Jia V, Owen AM. (2013) The brain's silent messenger – using selective attention to decode human thought for brain-based communication. J Neurosci 33(22), 9385–9393. **Featured on the website of the Canadian Association for Neuroscience.**

25. Peterson A, **Naci L**, Weijer C, Owen AM. (2013) A principled argument, but not a practical one. AJOB Neuroscience 4(1), 52–53.

26. Peterson A, **Naci L**, Cruse D, Fernández-Espejo E, Graham M, Weijer C, Owen AM.(2013) Assessing decision making capacity in the disorder of consciousness patient. AJOB Neuroscience 4(4), 3-14.

27. Guger C, Noirhomme Q, **Naci L**, Real R, Lugo Z, Veser S, Sorger B, Quitadamo L, Lesenfants D, Risetti M, Formisano R, Toppi J, Astolfi L, Emmerling T, Erlbeck H, Monti MM, Kotchoubey B, Bianchi L, Mattia D, Goebel R, Owen AM, Pellas F, Müller-Putz G, Kübler A. (2013) Brain-computer interfaces for coma assessment and communication. Emerging Theory and Practice in Neuroprosthetics; ed. Ganesh R Naik, IGIGLOBAL.

28. **Naci L**, Monti MM, Cruse D, Sorger B, Rainer G, Kotchoubey B, Kubler A, Owen AM. (2012) Brain computer interfaces for communication with non-responsive patients. Ann Neurol 72(3), 312–23.

29. **Naci L**, Cusack R, Taylor K, Tyler LK. (2012) Are the senses enough for sense? Recurrent high-level feedback shapes our comprehension of multisensory objects. Front Integr Neurosci. 6:82. 10.3389/fnint.2012.00082.

30. Cusack R, Veldsman M, **Naci L**, Mitchell DJ, Linke A. (2012) Seeing different objects in different ways: measuring ventral visual tuning to sensory and semantic features with dynamically adaptive imaging. Hum Brain Mapp 33(2), 387–97.

31. Covington M, He C, Brown C, **Naci L**, Brown J. (2006) How complex is that sentence? A proposed revision of the Rosenberg and Abbeduto D-Level scale. University of Georgia Press.

32. Covington M, He C, Brown C, **Naci L**, McClain T, Fjordbak B, Semple J, Brown J. (2005) Schizophrenia and the structure of language: The linguist's view. Schizophrenia Research 77(1), 85–98.

CONFERENCE PROCEEDINGS

1. Abdalmalak A, Milej D, Diop M, **Naci L**, Owen AM, Lawrence KSt. (2016) Assessing the feasibility of time-resolved fNIRS to detect brain activity during motor imagery. Proc. SPIE 9690, Clinical and Translational Neurophotonics; Neural Imaging and Sensing; and Optogenetics and Optical Manipulation, 969002; doi:10.1117/12.2209587.

2. **Naci L**, Cusack R, Macdonald A, Anello M, Arango M, Harle C, Owen AM. Assessing consciousness in anesthetized individuals. Organization for Human Brain Mapping. Geneva, Switzerland. Upcoming, June, 2016.

3. Haugg A, Cusack R, Sorger B, Owen AM, **Naci L**. (2016) A comparison of fMRI-based functional connectivity during resting-state and naturalistic stimulation. Annual Meeting of the Canadian Association for Neuroscience, Toronto, Canada. (Upcoming May 29 – June 1)

4. **Naci L**, Houldin E, Cusack R, Arango M, Harle C, Owen M A. Processing of complex, real world information as awareness fades under sedation. *Society for Neuroscience*.

Chicago, USA, October 2015.

5. Sinai L, Cusack R, Fiaconni C, Gonzalez L, Owen AM, **Naci L**. Probing the conscious experience of rich auditory stimuli. *Association for the Scientific Study of Consciousness*. Paris, France, June 2015.

6. **Naci L**, Annello M, MacDonald A, Naqshbandi S, Arango M, Harle C, Owen AM. The cognitive response to complex naturalistic stimuli in states of incremental sedation. *Association for the Scientific Study of Consciousness*. Paris, France, June 2015.

7. Horn, A., **Naci L**., Weijer C., & Owen, A. M. The master of suspense: using movies and fMRI to decode the phenomenology of conscious experience in vegetative state patients. Poster presented at the *Montreal Neuroethics Conference for Young Researchers*. Montreal, Quebec, April 2015.

8. Horn A., **Naci L**., Weijer C., & Owen A. M. (2015, May). *Decoding phenomenal experience in vegetative state patients*. Poster presented at the *Annual Meeting for the Canadian Association for Neuroscience*. Vancouver, Canada.

9. **Naci, L.**, Cusack, R., Anello, M., Owen, A. M. Decoding the contents of conscious awareness from brain activity. *Organization for Human Brain Mapping Annual Meeting*. Hawaii, USA, June 2015.

10. Sinai, L., Cusack, R., Owen, A. M., **Naci. L**. Probing conscious experience of rich naturalistic stimuli. *Lake Ontario Visionary Establishment*. February 5-6, 2015.

11. M Graham, C Weijer, D Cruse, D Fernandez-Espejo, L Gonzalez-Lara, **L Naci**, A Peterson, K Speechley, AM Owen. Evaluating subjective well-being in patients diagnosed as vegetative, with covert awareness. *International Neuroethics Society Annual Meeting*. Washington. November 14, 2014.

12. **Naci, L.**, Cusack, R., & Owen, A. (2014). A New fMRI Approach For Establishing Conscious Awareness And Communication In Behaviourally Nonresponsive Patients. *Journal of Neurotrauma* (Vol. 31, No. 5, pp. A68-A68).

13. Norton L, **Naci L**, Fernandez Espejo D, Young GB, Gofton T, Al Thenayan E, Owen AM. Can you hear me? Assessing Language Processing and Awareness in Comatose Patients using fMRI. *London Research Day*. 2014. London, ON.

14. A Peterson, D Cruse, **L Naci**, D Fernandez-Espejo, T Bruni, C Weijer, AM Owen. A framework for comparing neuroimaging techniques used to assess disorders of consciousness. *International Neuroethics Society Annual Meeting*. Washington. November 14, 2014.

15. Graham M, Weijer C, Peterson A, **Naci L**, Fernandez-Espejo D, Cruse D, Lazosky A, Gonzalez-Lara L, and Owen AM. Communication with patients diagnosed with disorders

of consciousness, and the moral significance of sentience. *Canadian Bioethics Society*. Vancouver. May 29, 2014.

16. Peterson A, **Naci L**, Weijer C, Benmordecai D, Cruse D, Fernandez-Espejo D, Gofton T, Gonzalez-Lara L, Lazosky A, Norton L, Speechley K, Young B, Owen AM. Is it possible assess decision making capacity in the disorders of consciousness patient? *Canadian Bioethics Society*. Vancouver. May 29, 2014.

17. Weijer C, Graham M, Peterson A, **Naci L**, Cruse D, Fernandez-Espejo D, Gonzalez-Lara L, Owen AM. Acknowledging awareness: informing families of individual research results for patients in the vegetative state. *Canadian Bioethics Society*. Vancouver. May 29, 2014.

18. Weijer C, Peterson A, **Naci L**, Graham M, Cruse D, Fernandez- Espejo D, Lazosky A, and Owen AM. Why discussion of end-of-life decisions through brain computer interfaces starts the ethical debate off on the wrong foot. Brain Matters 4: *Brain Science and Social Responsibility*. Vancouver. March 2014.

19. Peterson A, Cruse D, **Naci L**, Fernández-Espejo D, Graham M, Lazosky A, Weijer C, Owen AM. Ethical challenges in deriving the clinical utility of EEG for diagnosis of the vegetative state. International *Neuroethics Society Annual Conference*. San Diego, CA, November 2013.

20. Norton L, Fernández Espejo D, **Naci L**, Young GB, Gofton T, Owen AM. Innovative Prognostic Testing of Comatose Patients using fMRI. *Association for the Scientific Study of Consciousness*. 2013. San Diego, CA.

21. Graham, M., White, A., Peterson, A., **Naci, L.**, Cruse, L., Fernández-Espejo, D., Weijer, C., Owen. A. M. Investigators' ethical obligations to patients' families in disorders of consciousness research. *Brain MattersBrain Matters 3: Values at the Crossroads of Neurology, Psychiatry, and Psychology*, 2012; Cleveland, USA.

22. Peterson, A., **Naci, L.**, Cruse, D., FernándezEspejo, D., Graham, M., White, A., Weijer, C., Owen, A. M. Ethical implications of detecting awareness in disorders of consciousness: Question asking through a binary interface. *Brain Matters 3: Values at the Crossroads of Neurology, Psychiatry, and Psychology*, 2012; Cleveland, USA.

23. **Naci, L.**, Cusack, R., Zia, V. Z., Owen, A. M. Making every word count: intuitive and robust communication without a behavioural response. *Human Brain Mapping*, 2012; Beijing, China.

24. **Naci, L.**, Linke, A., Vicente-Grabovetsky, S., Gaudrain, E., Owen, A. M., Cusack, R. Using multi-voxel pattern analysis to decode the targets of auditory selective attention and imagery. *ICON*, 2011; Palma de Mallorca, Spain.

25. **Naci, L.**, Cusack, R, Henson, R., Tyler, L. K. Adaptive coding of object representation in anterior temporal, but not occipito-temporal regions. *Human Brain Mapping*, 2010; Barcelona, Spain.

26. Veldsman, M., Cusack, R., **Naci, L**., Mitchell, D. J. Characterising neural tuning to naturalistic objects with Dynamically Adaptive Imaging. *Human Brain Mapping*, 2010; Barcelona, Spain.

27. Cusack, R., Veldsman, M., **Naci, L.**, Mitchell, D., J, Linke, A. Rapidly characterizing multidimensional neural tuning to sensory and semantic features of real-world objects using Dynamically Adaptive Imaging. *Cognitive Neuroscience Society*, 2010; Montreal, Canada.

28. **Naci, L.**, Henson, R., Taylor, K., Tyler, L. K. The development of meaning with incremental object awareness: an efMRI study of stages of visual object processing. *Cognitive Neuroscience Society*, 2008; San Francisco, USA.

29. **Naci, L.**, Pulvermuller, F., Taylor, K., Shtyrov, Y., Hauk, O., & Tyler, L. K. (2006). Spatiotemporal patterns of cross-modal integration. *Journal of Cognitive Neuroscience*, 18, Suppl. E22.

30. **Naci, L**. (2003). Propositional Attitude Reports and Mental Representations. *Cambridge Postgraduate Conference in Language Research Proceedings*, Cambridge University Press, Cambridge.

SCIENTIFIC/ACADEMIC LEADERSHIP

2017 –	Research Ethics Board, School of Psychology, Trinity College Dublin, Ireland
2017 –	Leadership Lead, Global Brain Health Institute, Trinity College Dublin, Ireland.
2017 –	Selection Committee Global Brain Health Institute (member), Trinity College, Dublin & University of California San Francisco, Ireland.
2017 –	Neuro-Humanities Public Talks Committee, Trinity College Institute of Neuroscience, Trinity College Dublin, Ireland.
2016 –	Co-creator of the Completive Edge Program, Western University, Canada. https://grad.uwo.ca/postdoctoral_scholars/competitive_edge/index.html
2015 –2016	Member of the Advisory Committee on Postdoctoral Affairs at the School of Graduate and Postdoctoral Studies, Western University.
2015 – 2016	Postdoctoral Representative at the Steering Committee of the Brain and Mind Institute, Western University.
2013 – 2014	Secretary the Postdoctoral Association at Western University.

Working Group for Mentoring and Leadership Training of Postdoctoral Fellows at Western University.

Host of external speaker for the Psychology Colloquia Series at Western University.

2012 – 2013 Vice-President for Communications of the Postdoctoral Association at Western University.

Interviewer for selection of honour research students at Western University

2011 – 2012 Interviewer for selection of honour research students at Western University.

TEACHING/RESEARCH TRAINEE SUPERVISION & MENTORING

Graduate Trainees

2018 – '22 PhD Student, *Psychology,* Nicola Taylor [supervisor]
2018 – '22 PhD Student, *Psychology,* Feng Deng [supervisor]
2017 – '19 Atlantic Fellow for Equity in Brain Health, Global Brain Health Institute, Dr. Catherine Jordan, Ireland [primary mentor]
2017 – '18 Atlantic Fellow for Equity in Brain Health, Global Brain Health Institute, Dr Krystal Cueller, USA [provisional mentor]
2015 –'16 MSc, *Neuroscience,* Amelie Haugg *(***conference presentations: 2, published manuscripts: 2***)* [supervisor]
2015 – '17 MSc, *Neuroscience,* Max Silverbrook [supervisor]
2014 – '16 MSc, *Medical Biophysics,* Androu Abdalmalak, (**conference presentations: 3, published manuscripts: 2**) [mentor]
2013 – '15 MSc, *Psychology,* Leah Sinai, (**conference presentations: 2, published manuscripts: 2**) [supervisor]
2012 – '16 PhD, *Philosophy,* Andrew Peterson, (**conference presentations: 6, published manuscripts: 4**) [mentor]

Undergraduate Students

2017 – **2** Honours' Internship Students, University of Georgia, USA (Katie Irwin, Tarun Daniel; **submitted manuscripts: 1**)
2012 – 2013 **1** Honours' Undergraduate Thesis student (Arnold Lee, **conference presentations: 1**)
2011 – 2012 **1** Honours' Undergraduate Thesis student (Vivian Jia, **published paper: 1**)
2012 – 2015 **2** Undergraduate Research Assistants (Mimma Anello, **conference presentations: 2; published manuscripts: 2**; Alex MacDonald, **published manuscripts: 2**)
2012 – 2015 **4** Undergraduate Volunteers
2009 – 2010 **8** Part II Psychology
2008 – 2009 **8** Part II Psychology
2007 – 2009 **8** Part II Psychology

Classroom Teaching

2018 – Foundations of Psychological Thought, School of Psychology, Trinity College Dublin
2017 – Leadership Training Overseas Retreat and Classroom Series, Global Brain Health Institute Fellows class of 2017-2018.

2004 – **80** Undergraduate students. 'Introduction to Neuroscience' course. University of Georgia, 24h weekly.