

Mark Antony Gorenstein

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Research Interests

Cognitive neuroscience, neuromodulation, cortical oscillations, predictive coding

Education

2016 COLUMBIA UNIVERSITY, New York, NY
B.A. in Computer Science
3.7 GPA, Philosophy concentration within major

2014-2015 ST. CATHERINE'S COLLEGE, Oxford, UK
Computer Science-Philosophy
Selective year-long exchange program

Experience

July 2016- EPILEPSY & COGNITION LAB, Lebanon, NH
Research Assistant
Restoring Active Memory Project
P.I.'s: Dr. Barbara Jobst (Dartmouth)
 & Dr. Michael Kahana (University of Pennsylvania)

2014-2015 LAB FOR THE PHILOSOPHY & PSYCHOLOGY OF RATIONALITY & DECISION, Oxford, UK
Research Assistant
P.I.: Dr. Philipp Koralus

Summer 2015 YOSSARIAN, London, UK
NLP Research & Development

2013-2014 OPEN SYLLABUS PROJECT, New York, NY
Research Programmer

Conference Abstracts

2017 **Gorenstein MA**, Jobst BC, et al., "Modulating interictal spiking through targeted electrical stimulation during a word list memory task," *American Neurological Association*, San Diego, CA, USA. **Voted top abstract in category, awarded travel funding.**

Gorenstein MA, Jobst BC, et al., "Evaluating the effects of targeted electrical stimulation on interictal spiking across stimulation sites and parameters," *Society for Neuroscience*, Washington, D.C., USA

Song Y, **Gorenstein MA**, Hartstein KC, Tse PU, Roberts DW, Hong J, Bujarski KA, Kobylarz EJ, Thadani VM, Thomas GP, Jobst BC, “A GUI-based platform for human brain functional mapping in epilepsy patients,” *Society for Neuroscience*, Washington, D.C., USA

Gorenstein MA, Jobst BC, et al., “Assessing the Cognitive Impact of Morphologically Distinct Interictal Spikes,” *American Epilepsy Society*, Washington, D.C., USA

Publications

[IN REVISION] Ezzyat Y, Wanda PA, Levy D, Kadel A, Aka A, Pedisich I, Sperling MR, Sharan AD, Lega BC, Burks A, Gross RE, Inman CS, Jobst BC, **Gorenstein MA**, Davis KA, Worrell GA, Kucewicz MT, Stein JM, Gorniak R, Das SR, Rizzuto DS, Kahana MJ, “Closed-loop stimulation of temporal cortex rescues functional networks and improves memory,” *Submitted*.

[IN PREP] Methods paper about using the Neuropace RNS[®] to record ambulatory ECoG during cognitive experiments.

Talks

Oct. 2017 “Modulating interictal spiking through targeted electrical stimulation during a word list memory task,” *American Neurological Association*, Advances in Electrical Stimulation for Treatment of Epilepsy & Comorbidities Symposium, San Diego, CA, USA.

Teaching & Mentorship

2016– NEW HAMPSHIRE ACADEMY OF SCIENCE
Referee of submissions to the annual meeting of the American Junior Academy of Science

2012-2013 AMERICA READS (P.S. 76 AND P.S. 180)
Volunteer literacy tutoring three days per week in Harlem

Workshops

Nov. 2017 ANIMAL CONSCIOUSNESS WORKSHOP, NYU, New York, NY

Aug. 2017 ACTION UNDERSTANDING SUMMER WORKSHOP, Hanover, NH

Apr. 2017 DARTMOUTH NEUROSCIENCE DAY, Hanover, NH

Oct. 2016 CENTER FOR COGNITIVE NEUROSCIENCE RETREAT, Fairlee, VT

Aug. 2016 PREDICTIVE CODING SUMMER WORKSHOP, Hanover, NH

Skills

COMPUTATIONAL METHODS

High dimensional data analysis: NumPy, pandas, scikitlearn, etc.

Experiment presentation: jsPsych, PsychoPy

Data visualization: matplotlib, D3.js, Processing

Tools: L^AT_EX, Git/GitHub, AWS, MongoDB

PROGRAMMING LANGUAGES

Python, C/C++, Java, MATLAB, JavaScript, HTML, CSS, SQL

NATURAL LANGUAGES

Russian (Heritage Speaker)

French (Elementary Proficiency)

References

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