

Mark Antony Gorenstein

Dartmouth-Hitchcock Medical Center
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Research Interests

Cortical oscillations, electrical stimulation, phonological processing, 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 (UPenn)
- 2014-2015 LAB FOR THE PHILOSOPHY & PSYCHOLOGY OF RATIONALITY & DECISION, Oxford, UK
Research Assistant
- Summer 2015 YOSSARIAN, London, UK
NLP Research & Development
- 2013-2014 OPEN SYLLABUS PROJECT, New York, NY
Research Programmer

Conference Abstracts

- [ACCEPTED w/
TRAVEL AWARD] **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. SELECTED FOR ORAL PRESENTATION DURING DATA BLITZ SESSION.
- [ACCEPTED] **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
- [ACCEPTED] **Gorenstein MA**, Jobst BC, et al., "Assessing the Cognitive Impact of Morphologically Distinct Interictal Spikes," *American Epilepsy Society*, Washington, D.C., USA

Publications

- [SUBMITTED] 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.

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

- 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

TOOLS & LIBRARIES

SciPy Stack (NumPy, Matplotlib, pandas, scikit-learn, etc.)
nltk, Flask, Processing, D3.js, jsPsych, jQuery,
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

BARBARA C. JOBST
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Director of Epilepsy Center
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Geisel School of Medicine
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SALVADOR MASCARENHAS
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Department of Cognitive Studies
École Normale Supérieure
Institut Jean Nicod
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DANIEL FOSTER-SMITH
Co-Founder and CTO
Yossarian
dan@yossarianlives.com