

JORDAN MATELSKY

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JOHNS HOPKINS UNIVERSITY

Computer Science (BS) and Neuroscience (BS)

Anticipated Graduation: May 2016

EXPERIENCE

2013–Present Medella Medical LLC

CO-FOUNDER & PRINCIPAL. *In a team of four, embarked on a mission to bring meaningful, beautiful design to the world of healthcare. Pursuing digital-health projects and applications concurrently in the US and China. Projects include HIPAA-compliant data-management systems in use at the Johns Hopkins Medical Institute and New York Presbyterian Hospital.*

2014–Present FitMango

CHIEF TECHNOLOGICAL OFFICER. *Alongside my cofounder Seal-bin Han, I founded FitMango to make personal health and fitness training affordable to the general public. FitMango pairs users with like-minded individuals and personal trainers who can help them reach their fitness goals. Our work led to its acceptance into the Social Innovation Lab 2014–15 Cohort, the AccelerateBaltimore Class of 2015, and the Technology Commercialization Fund from TEDCO. Our app is currently in use at Brick Bodies Maryland, and we are in active negotiations with other gym and personal-training centers around the nation.*

2015–Present mHealth CBID

Primary Healthcare Delivery SOFTWARE DEVELOPER. *Model for Underserved Populations in Rural India. Developed and deployed software to connect physicians in urban centers of India to patients in rural areas in order to facilitate diagnosis and treatment in regions where healthcare was otherwise unavailable.*

2013 InstaEDU INC

SOFTWARE INTERN. *Designed software on the InstaEDU platform, a web-app to connect students with appropriate tutors. Developed both front- and back-end software on the Django framework.*

2013 Activu Corporation

INTERN. *Personal assignments included designing secure extensions for Microsoft Office (C#), as well as a Virtual-Machine management platform (Python).*

RESEARCH

2015–Present NeuroData

*Developed software infrastructure to aid in understanding the complex connectivity of the brain. My proudest contribution to the world of open-data neuroscience has been **ndio**, a comprehensive Python library that manipulates, stores, and interacts with large-scale neurodata. The ndio codebase spans thousands of lines of tested, cross-platform code, currently in active use by neuroscientists both inside and outside of the Johns Hopkins NeuroData community.*

2014 Dr. Joel Bader

Code contributor on the Synthetic Yeast (Sc2.o) project. Primary projects included developing secure lab-bench digital notebooks for designing and implementing involved synthetic-biology protocols.

2013 Dr. Gislin Dagnelie

Architected digital-diagnostics system to collect patient- and hardware-data after implantation with a retinal prosthesis.

2011 Dr. Minjoon Kouh

Assisted in the development of a protocol to track and predict neurite growth of in-vitro simulated-Alzheimer's neurons.

PUBLICATIONS & PRESENTATIONS

Nov 11 2015 "Python in Big-Data Neuroscience."

A summary of work in bringing parallelizable, intuitive, open-source software to the world of data-driven petascale neuroscience.

Johns Hopkins University, November 2015.

Nov 10 2015 "Prelude to Piano Concerto: Entrepreneurship on Campus."

I had the tremendous honor of being invited to give a TEDx talk on the state of entrepreneurship at universities. An online recording will be available in the near future.

2015 Editor: *The Blender 3D Cookbook* — Enrico Valenza

Editor. This book covers the basics of 3D character modelling in the open-source Blender 3D software suite.

Mar 27 2015 "Low-Cost Tocodynamometry and Fetal Heart-Rate Monitor"

An overview of a low-cost, smartphone-based tocodynamometer-toco-transducer and fetal heart-rate monitor for use in regions of low healthcare accessibility.

The Biomedical Engineering Society Undergraduate Research Conference, Johns Hopkins University, March 2015.

Dec 23 2014 "What is a Neuroscientist?"

Interactive demonstration and presentation of neuroscience technology and common cognitive tests to excite middle-school students about neurological and psychological sciences.

Mount Olive Middle School, Mount Olive, NJ December 2014.

Nov 20 2014 "How to Be a College Superstar."

Presented at round-table discussion discussing the state of innovation and entrepreneurship on college campuses. Sponsored by AKΨ, Career Center, Biomedical Engineering, and Computer Science departments.

Johns Hopkins University, November 2014.

April 15 2014 "Data-validation improvements in retinal prosthesis testing."

Multimedia Presentation. Presented at the Undergraduate Research Symposium.

Johns Hopkins University, April 2014.

May 29 2014 "A Quantitative Data Visualization Technique for Expressing Biomedical Data."

Poster Presentation. Presented at the Psychiatry and Behavioral Sciences Research Potpourri.

Johns Hopkins Medical Institute, Psychiatry & Behavioral Sciences Department

ACTIVITIES

- 2014–Present **NPΨ: The Johns Hopkins University Neuroscience Honors Society**
Acted as chair for a volunteer community outreach program that brought neuroscience education in an entertaining, enriching format to children in Baltimore City.
- 2013–Present **HopHacks**
ORGANIZER. *Produced bi-annual, three-day hackathon events for students at Johns Hopkins University as well as the surrounding areas.*
- 2013–Present **Engineering World Health**
EXECUTIVE. *Handled all grants and funding proposals for several teams of undergraduate engineers. Spearheaded the design of a low-cost tocodynanometer to improve childbirth in developing countries. Recipient of the 2014 Johns Hopkins University Student Initiatives Fund.*
- 2012–Present **Neuroscience Journalism Club**
PRESIDENT. *Led undergraduate meetings tailored to discuss recent, notable discoveries in the neuroscience world. Assisted in general understanding of complex biomedical language.*
- 2013 – '14 **Sustainable Hopkins Infrastructure Program (SHIP)**
Researched and pitched large-scale projects to university administration in order to improve environmental-friendliness and spread green-awareness on campus.
- 2012 – '14 **Student Admissions Advisory Board**
Member of a select, student-run team to supply a student perspective in the Johns Hopkins University Admissions Office.
- 2009 – '12 **Roxbury Technology Association**
CO-FOUNDER. *Designed and taught curricula in a variety of technological subjects, including FIRST Robotics, computer programming, 3D design, and more. Oversaw a team of student teachers.*

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