

Adam Li

NEURAL DATA SCIENTIST · APPLIED CAUSAL MACHINE LEARNING · STATISTICS AND MATHEMATICS · ENGINEERING LEADERSHIP AND PROJECT MANAGEMENT

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Positions

Postdoctoral Research Scientist in the Causal AI Lab

New York City, NY

COLUMBIA UNIVERSITY | COMPUTER SCIENCE DEPARTMENT | ADVISOR: ELIAS BAREINBOIM

Jan. 2022 - Present

- NSF Computing Innovation Fellow

Education

PhD in Biomedical Engineering

Baltimore, MD

JOHNS HOPKINS UNIVERSITY | GPA: 3.8 | ADVISOR: DR. SRIDEVI SARMA

Aug. 2015 — Dec 2021

- Thesis: *Localization of the Epileptogenic Zone: A Dynamical Systems Perspective*
- NIH NETI Fellow, NSF-GRFP Fellow, Whitaker Fellow, Chateaubriand Fellow, ARCS Chapter Scholar

MS in Applied Mathematics and Statistics

Baltimore, MD

JOHNS HOPKINS UNIVERSITY | GPA: 3.8 | ADVISOR: CAREY PRIEBE

Aug. 2019 — May 2021

- Coursework in: Statistical Learning Theory, Optimization, Matrix Analysis, Real Analysis

B.S. Bioengineering, B.S. Mathematics - Applied Sciences

La Jolla, CA

UNIVERSITY OF CALIFORNIA SAN DIEGO | MAJOR GPA: 3.75

Sep. 2010 — Mar. 2015

- Tau Beta Pi, Gordon Scholar & Fellow, Provost's Honors

Journal Publications, Preprints and Working Submissions

Neural Fragility as an EEG Marker of the Seizure Onset Zone - pdf

2021

ADAM LI, ET AL.

Nature Neuroscience (Oct Cover)

Manifold Oblique Random Forests: Closing the Gap on Convolutional Neural Networks - pdf

2021

ADAM LI*, ET AL.

ArXiv (in review at SIMODS)

Classification of Stereo-EEG Contacts in White Matter vs. Gray Matter Using Recorded Activity - pdf

2021

P. GREENE, ADAM LI, J. GONZÁLEZ-MARTÍNEZ, S. V. SARMA

Frontiers in Neurology

Using network analysis to localize the epileptogenic zone from invasive EEG recordings in intractable focal epilepsy - pdf

2018

ADAM LI*, ET AL.

Network Neuroscience

Source-sink connectivity: A novel interictal EEG marker for seizure localization - pdf

2021

GUNNARSDOTTIR, K., LI, ADAM, ET AL.

In Review at Brain

MNE-ICALabel: Automatically annotating ICA components with ICLabel in Python - pdf

2022

ADAM LI, J. FEITELBERG, A. SAINI, M. SCHELTENNE

In Review at Journal of Open Source
Software

Neural Fragility of the Intracranial EEG Network Decreases after Surgical Resection of the Epileptogenic Zone - pdf

2021

ADAM LI, P. MYERS, N. WARSKI, K. GUNNARSDOTTIR, S. KIM, V. JIRSA, A. OICHI, H. OTUSBO, G. IBRAHIM, S. V. SARMA

In Review at Journal of Neurosurgery

Quantitative approaches to guide epilepsy surgery from intracranial EEG

2022

ADAM LI*, J. BERNABEI, A. REVELL, N. SINHA, R. J. SMITH, K. GUNNARSDOTTIR, I. ONG, S. V. SARMA, B. LITT

Review Paper to be reviewed at Brain

pybv – A lightweight I/O utility for the BrainVision data format.

2022

[<https://github.com/bids-standard/pybv>]

APPELHOFF, S., BRUNNER, C., STENNER, T., HOLDGRAF, C. R., HÖCHENBERGER, R., LI, ADAM, ALDAY, P., & PRADHAN, A.

Patents

Identifying the Epileptogenic Zone using Network Fragility Theory

SRIDEVI SARMA, ADAM LI, JORGE GONZALEZ

Patent Application No. 62421037

Nov. 11th, 2017

Identifying the Epileptogenic Zone using Virtual Cortical Stimulation

SRIDEVI SARMA, ADAM LI, JORGE GONZALEZ

Provisional Patent

Feb. 11th, 2019

GEAR (Game Enhancing Augmented Reality) - A lower limb alternative control interface for computers.

GYORGY LEVAY, ADAM LI, NATE TRAN

Patent Application No. 16309183

May 23rd, 2016

Peer-Reviewed Conference Proceedings

Temporal and morphological characteristics of high-frequency oscillations in an acute in vivo model of epilepsy

SOPHIA ZHAI, DANIEL EHRENS, ADAM LI, FADI ASSAF, YITZHAK SCHILLER, SRIDEVI V. SARMA, RACHEL JUNE SMITH

IEEE EMBS - EMBC

Glasgow, Scotland UK 2022

Network Fragility in Seizure Genesis in an Acute in vivo Model of Epilepsy

ADAM LI, DANIEL EHRENS, FADI AED, YITZHAK SCHILLER, SRIDEVI V SARMA

IEEE EMBS - EMBC

Montreal, Canada 2020

Evaluating Invasive EEG Implantations in Medically Refractory Epilepsy with Functional Scalp EEG Recordings and Structural Imaging Data

ANIL PALEPU, ADAM LI, ZACHARY FITZGERALD, KATHERINE HU, JULIA COSTACURTA, JUAN BULACIO, JORGE MARTINEZ-GONZALEZ, SRIDEVI V SARMA

IEEE EMBS - EMBC

Berlin, Germany 2019

Virtual Cortical Stimulation Mapping of Epilepsy Networks to Localize the Epileptogenic Zone

ADAM LI, SRIDEVI V SARMA, ZACHARY FITZGERALD, JENNIFER HOPP, EMILY JOHNSON, NATHAN CRONE, JUAN BULACIO, JORGE MARTINEZ-GONZALEZ, SARA INATI, KAREEM ZAGHLOUL

IEEE EMBS - EMBC

Berlin, Germany 2019

Linear Time-Varying Model Characterizes Invasive EEG Signals Generated from Complex Epileptic Networks

ADAM LI, KRISTIN M. GUNNARSDOTTIR, SARA INATI, KAREEM ZAGHLOUL, JOHN GALE, JUAN BULACIO, JORGE MARTINEZ-GONZALEZ, SRIDEVI SARMA

IEEE EMBS - EMBC

Jeju, South Korea 2017

Fragility in epileptic networks: The epileptogenic zone

ADAM LI, SARA INATI, KAREEM ZAGHLOUL AND SRIDEVI SARMA

American Control Conference

Seattle, WA 2017

Estimating Unmeasured Invasive EEG Signals Using a Reduced Order Observer

KRISTIN M. GUNNARSDOTTIR, ADAM LI, JUAN BULACIO, JORGE GONZALEZ-MARTINEZ, SRIDEVI V. SARMA

IEEE EMBS - EMBC

Jeju, South Korea 2017

Honors & Awards

2020	ARCS Chapter Fellowship , 1 of 3 awardees - Pre-doctoral Fellowship	Washington, DC
2019	Whitaker Conclusion Grant , 1 of 5 teams awarded \$100k - Outreach Fellowship	USA
2017	Chateaubriand STEM Research Fellowship , Pre-doctoral international fellowship	France
2017	Whitaker Research Fellowship , Pre-doctoral international fellowship	France
2017	NSF , Graduate Research Fellowship	USA
2016	NSF , Graduate Research Fellowship - Honorable Mention	USA
2016	Intel Cornell Cup , 1st place	USA
2015	NIH NETI , Graduate training fellowship	Baltimore
2015	Frontiers of Innovation Scholars , undergraduate research fellowship	UCSD
2014	IDEA Center Scholar , undergraduate research fellowship	UCSD
2014	Gordon Fellow , undergraduate leadership award	UCSD
2014	ASAIO Student Design Competition , top 27 in USA	USA
2013	Amgen Scholar , undergraduate research fellowship	UCSD
2013	Gordon Leadership Scholar , undergraduate leadership	UCSD
2012	CalIT Scholar , undergraduate research fellowship	UCSD

Entrepreneurial Awards

2022	KPCB (Kleiner Perkins VC) Engineering Fellow ,
2021	NSF SBIR Phase I Grant ,
2019	Maryland Innovative Initiative (MII) Grant ,
2018	NSF SBIR Phase I Grant ,
2014	NCIIA E-Team Grant ,
2013	Health and Life Sciences Grant ,
2013	Von Liebig NSF I-Corps Fellow ,

Grants - Total=\$644,000

NSF Computing Innovation Fellowship Grant (2127309) - Postdoctoral Fellowship \$150k

January 1, 2022 — January 1, 2024 | Causal Reinforcement Learning with Unknown Causal Structure: An Application to Treatment of Drug-Resistant Epilepsy Patients. Awarded 69 out of 238 (28% Rate).

NSF SBIR Phase-I Grant (2112011) - Co PI \$256k

May 15, 2021 — April 30, 2022 | Improving Diagnosis of Epilepsy by Applying Network Analytics to Non-Seizure Scalp EEG Data

Whitaker Phase I Conclusion Grant - Co PI \$100k

Jan. 2019 — Jan. 2023 | Outreach for Biomedical Science story-telling around the world. 1 of 5 awardee groups.

NSF Graduate Research Fellowship Program (DGE 1746891) \$138k

2016 — 2021 | Improving Diagnosis of Epilepsy by Applying Network Analytics to Non-Seizure Scalp EEG Data

Experience

Co-Founder and CTO, Neurologic Solutions Corp. Sep. 2018 — Dec. 2021

- Raised over \$600K non-dilutive funds to-date (Two NSF SBIR Phase I \$225k, Maryland Innovation Initiative \$150k, \$10K JHTV Pitch Competition).
- Filed provisional patents and full patents in the USA, European and Japan markets through collaboration with Johns Hopkins Technology Ventures (JHTV).
- Led product development of software product with team of 3 software engineers for helping clinicians localize the epileptogenic zone in epileptic patients (**AWS** infrastructure with **Docker**, **Kubernetes** and **Flux**, **REST API**, **algorithm development**, UX design and **data engineering**).
- Led **510k FDA** approval process with a team of 5 engineers, consultants and advisors involving risk analysis, software requirements, design specifications, and user-testing (unit testing with **pytest**, continuous integration, and software documentation).
- Led research of EEG, imaging and clinical datasets to validate machine learning algorithms to inform clinical decision making in epilepsy patient treatment.

Graduate Research Assistant, Neuromedical Control Systems Lab, Johns Hopkins University

Aug. 2015 — Dec. 2021

Advisor: Dr. Sridevi Sarma

- Coordinated data pipeline of electrophysiological and clinical data of epilepsy patients from 5 hospitals in coordination with clinicians in setting up a HIPAA-compliant server for highly parallelized data analysis, resulting in **Nature Neuroscience publication**.
- Identified and developed signal processing and statistical analysis of clinical multi-modality datasets that resulted in over 400 pull requests merged in open-source packages with up to 1,000's of users (**Git, CI, unit-testing, software design & development**)
- Developed statistical and machine learning models on multivariate time series EEG, clinical and neuroimaging MRI and CT data to analyze different seizure localization models (model building & validation with **scikit-learn/keras/pytorch**, data wrangling with **pandas, numpy**).
- Coordinated open-source discussions on EEG and iEEG data formatting in a 79 international team of researchers on Github (**technical communication of the Brain Imaging Data Structure - BIDS**)
- Coordinated a team of engineers to develop a structure-aware Random Forest algorithm in Python and Cython to perform manifold learning (to be implemented as a PR into **scikit-learn**).

Visiting Research Scientist, Theoretical Neurosciences Group, Aix-Marseille University

Sep. 2017 — Sep. 2018

Advisors: Dr. Viktor Jirsa, Dr. Sridevi Sarma

- Developed a high-throughput parallelized data pipeline for multi-modality 3D brain imaging using **Bash and Snakemake (Python DAG engine)** resulting in robust 3D brain visualizations.
- Designed **nonlinear biophysical simulation models** with **linear dynamical systems analysis** to predict the surgical outcome in epileptic patients resulting in a paper to be submitted to Brain
- Developed a supervised deep learning pipeline using nonlinear computational modeling and a Recurrent-CNN model to perform patient-specific seizure detection (**Python/Keras/Pytorch**)
- Implemented open-source code on *The Virtual Brain* (a Human Brain Project) for generating observational noise, analysis of simulated source signals and scientific demos

WORK EXPERIENCE

Co-Founder and CTO, Neurologic Solutions Corp.

Sep. 2018 — Dec. 2021

- Raised over \$600K to-date (Two NSF SBIR Phase I \$225k, Mayland Innovation Initiative \$150k, \$10K JHTV Pitch Competition).
- Filed provisional patents and full patents in the USA, European and Japan markets through collaboration with Johns Hopkins Technology Ventures (JHTV).
- Led product development of software product with team of 3 software engineers for helping clinicians localize the epileptogenic zone in epileptic patients (AWS infrastructure with Kubernetes and Flux, REST API, algorithm development, UX design and data engineering).
- Led **510k FDA** approval process with a team of 5 engineers, consultants and advisors involving risk analysis, software requirements, design specifications, and user-testing (unit testing, continuous integration, and software documentation).

Co-Founder, Biometrics Analytics

Jun. 2012 — Sep. 2015

- Researched & developed novel ways to evaluate Parkinson's Disease using biometric sensors and robust data analysis; led team in data acquisition of human data, data analysis and statistical analysis using MATLAB and Python.
- Led data acquisition of clinical data and full-body pose data from the Microsoft Kinect. Performed data analysis using machine learning and image processing algorithms (MATLAB, Python and C++).
- Raised over \$20,000 and obtained an IRB for a pilot clinical human study, resulting in the Gordon Fellowship Award for outstanding engineering leadership (awarded to 3 students/year at UCSD).
- Worked in a team of 4 for the Von Liebig NSF I-Corps Program and the NCIIA Entrepreneurship Program (15% acceptance rate) for startup incubation.

Data Processing Intern, West Health Institute 501(C)

Jun. 2014 — Jun. 2015

- Wrote pymongo queries running on an event scheduler (Python, MongoDB) that provided computed features of game play and behavior for the clinical team to analyze behavior during experiments.
- Developed clinical web forms using HTML, CSS, JavaScript, which are then linked to an AWS server running MongoDB with Node.js (git and general version control).
- Built an Android application that created a custom launch screen for the clinical team with Java and XML.
- Researched and recommended technological improvements to data collection that could be incorporated into the analytics group at the institute for the treatment of Autism Spectrum Disorder.

Project Team Leader, West Health Institute 501(C)

Jun. 2014 — Jun. 2015

- Wrote pymongo queries running on an event scheduler (Python, MongoDB) that provided computed features of game play and behavior for the clinical team to analyze behavior during experiments.
- Developed clinical web forms using HTML, CSS, JavaScript, which are then linked to an AWS server running MongoDB with Node.js (git and general version control).
- Built an Android application that created a custom launch screen for the clinical team with Java and XML.
- Researched and recommended technological improvements to data collection that could be incorporated into the analytics group at the institute for the treatment of Autism Spectrum Disorder.

Process Development Engineering Intern and College Ambassador, Genentech

Aug. 2010 — Aug. 2011

- Collaborated with Genentech College Programs to improve online engagement by 60%, while coordinating events with directors and human resources that drew in over 200 attendees.
- Implemented a new batch control process using Rockwell Automation and PLCs to automate chromatography purification process (used SQL and Python).

Teaching

Teaching Assistant

Baltimore, MD

NEURODATA DESIGN COURSE (BME 580.638) - DEVELOP OPEN SOURCE CONTRIBUTIONS TO PYTHON SCIENTIFIC COMPUTING

Sep. 2019 — Jan 2020

LIBRARIES

Head Teaching Assistant

Baltimore, MD

SYSTEMS BIOENGINEERING II COURSE (BME 580.424) - 150 STUDENTS AND 6 TAs

Jan. 2019 — May 2019

Teaching Assistant

La Jolla, CA

DATA STRUCTURES COURSE (CSE 12) - C, C++

Sep. 2014 — May 2015

Conference Presentations and Posters

Neural Fragility of the Intracranial EEG Network Decreases Intraoperatively after Surgical Resection of the Epileptogenic Zone in Children with Epilepsy

Chicago, USA

AMERICAN EPILEPSY SOCIETY

Dec. 2021

ADAM LI, PATRICK MYERS, CHESTER HUYNH, NEBRAS WARSI, KRISTIN M. GUNNARSDOTTIR, SOO KYUNG S. KIM, VIKTOR JIRSA, SRIDEVI V. SARMA AND GEORGE M. IBRAHIM

Neural Fragility as an EEG Marker of the Seizure Onset Zone

Chicago, USA

AMERICAN EPILEPSY SOCIETY

Dec. 2021

PATRICK MYERS, **ADAM LI**, C. HUYNH, Z. FITZGERALD, I. CAJIGAS, D. BRUSKO, J. JAGID, A. CLAUDIO, A. KANNER, J. HOPP, S. CHEN, J. HAAGENSEN, E. JOHNSON, W. ANDERSON, N. CRONE, S. INATI, K. ZAGHLOUL, J. BULACIO, J. GONZALEZ-MARTINEZ, S. V. SARMA

Automated classification of stereo-EEG contacts in white matter versus gray matter using recorded activity

Montreal, Canada (virtual)

IEEE ENGINEERING IN MEDICINE AND BIOLOGY

Jul. 2020

ADAM LI, PATRICK GREENE, JORGE MARTINEZ-GONZALEZ, SRIDEVI SARMA

Towards Automatic Localization and Anatomical Labeling of Intracranial Depth Electrodes in Brain Images

Montreal, Canada (virtual)

IEEE ENGINEERING IN MEDICINE AND BIOLOGY

Jul. 2020

ADAM LI, CHESTER HUYNH, JORGE MARTINEZ-GONZALEZ, SRIDEVI SARMA

Semi-Automatic SEEG Localization and Interactive Neuroimage Visualization in Epilepsy Patients

Montreal, Canada

ORGANIZATION FOR HUMAN BRAIN MAPPING

June 23 - July 3, 2020

ADAM LI, CHESTER HUYNH, CHRISTOPHER COOGAN, SRIDEVI SARMA

MNE-BIDS: MNE-Python + BIDS = easy dataset interaction (Version 1.0.1)

Montreal, Canada

ORGANIZATION FOR HUMAN BRAIN MAPPING

June 23 - July 3, 2020

STEFAN APPELHOFF, **ADAM LI**, ET AL. - 10.5281/ZENODO.3891836

Identification of the Epileptogenic Zone from Intracranial Electrographic with a Novel Network Fragility Algorithm in Patients with Temporal-Lobe Epilepsy

Virtual

AANS

Jun. 2020

IAHN CAJIGAS, DAMIAN BRUSKO, ANGEL CLAUDIO, **ADAM LI**, SRIDEVI SARMA, ANDRES KANNER, JONATHAN JAGID

Application of A Network Fragility Algorithm for the Identification of the Epileptogenic Zone from Intracranial Electrocorticography in Patients with Temporal-Lobe Epilepsy

AMERICAN EPILEPSY SOCIETY

ADAM LI, IAHN CAJIGAS, DAMIAN BRUSKO, ANGEL CLAUDIO, ANDRES KANNER, JONATHAN JAGID, SRIDEVI SARMA

Baltimore, MD

Nov. 2019

Using personalized brain models to augment datasets for deep learning

WORKSHOP ON MACHINE LEARNING AND COMPUTER VISION

ADAM LI, SRIDEVI SARMA, VIKTOR JIRSA

Janelia, HHMI, USA

Apr. 2019

Integrating Large Brain Networks and Network Analysis to Understand The Epileptogenic Zone

ORGANIZATION FOR COMPUTATIONAL NEUROSCIENCE

ADAM LI, MARMADUKE WOODMAN, SRIDEVI SARMA, VIKTOR JIRSA

Seattle, WA

Jul. 2018

Integrating Large Brain Networks and Network Analysis to Understand The Epileptogenic Zone

ADVANCED COURSE ON DATA SCIENCE & MACHINE LEARNING

ADAM LI, SRIDEVI SARMA, VIKTOR JIRSA

Tuscany, Italy

Jul. 2018

T101. Use of a quantitative algorithm to help predict seizure lateralization in a patient with bitemporal epilepsy and responsive nerve stimulation

CLINICAL NEUROPHYSIOLOGY

JENNIFER J. HAAGENSEN, STEPHANIE CHEN, JENNIFER L. HOPP, ADAM LI, SRIDEVI SARMA

Seattle, WA

2018

Open Source Software

I have extensive experience working in asynchronous teams on code reviews, unit testing with **pytest**, continuous integration, API designs and discussion and implementing robust code in **Python, Cython and C++**. I have also worked with **Javascript**. All our organizations are dedicated to diversity, equity and inclusion and commonly host office hours, community development and public forums.

scikit-learn | <https://github.com/scikit-learn/scikit-learn>

CONTRIBUTOR - MACHINE LEARNING IN PYTHON, CYTHON, C++

MNE-ICALabel | <https://github.com/mne-tools/mne-icalabel>

MAINTAINER - AUTOMATIC ICA LABELING WITH PYTHON

Integration of Oblique Trees

2021 — Present

2022 — Present

MNE-Connectivity | <https://github.com/mne-tools/mne-connectivity>

DEVELOPER - PYTHON CONNECTIVITY ANALYSIS FOR NEURAL DATA

Google Summer of Code 2021

2021 — Present

Stereotactic EEG Kit (SEEK) | <https://github.com/ncsl/seek>

CORE MAINTAINER - DATA PIPELINE FOR NEUROIMAGING DATA

2019 — Present

MNE-HFO | <https://github.com/adam2392/mne-hfo>

CORE DEVELOPER - DIGITAL SIGNAL PROCESSING OF HIGH-FREQUENCY OSCILLATIONS IN PYTHON

2020 — Present

BIDS | <https://github.com/bids-standard/bids-specification>

ELECTROPHYSIOLOGY TEAM MEMBER - OPEN-ACCESS SCIENTIFIC DATA ORGANIZATION AND API DESIGN

2019 — Present

MNE-Python | <https://github.com/mne-tools/mne-python>

CORE DEVELOPER - ELECTROPHYSIOLOGICAL DIGITAL SIGNAL PROCESSING AND VISUALIZATION IN PYTHON

2019 — Present

MNE-BIDS | <https://github.com/mne-tools/mne-bids>

CONTRIBUTOR - ROBUST AND EFFICIENT DATA LOADING AND FORMATTING FOR MEG/EEG/IEEG

2019 — Present

pybids | <https://github.com/https://github.com/bids-standard/pybids>

CONTRIBUTOR - QUERYING OF LARGE-SCALE FORMATTED DATASETS

2019 — Present

bids-validator | <https://github.com/https://github.com/bids-standard/bids-validator>

CONTRIBUTOR - VALIDATION OF BIDS DATASETS ACCORDING TO A STANDARD

2019 — Present

pyDMD | <https://github.com/mathLab/PyDMD>

CONTRIBUTOR - DYNAMIC MODE DECOMPOSITION IN PYTHON

2019 — 2020

The Virtual Brain (TVB) | <https://github.com/the-virtual-brain/tvb-root>

CONTRIBUTOR - COMPUTATIONAL NEUROSCIENCE WHOLE-BRAIN SIMULATION PLATFORM

2017 — 2018

Leadership and Volunteer Work

Google Summer of Code - Mentor

MENTOR NEW DEVELOPERS IN CONTRIBUTING TO OPEN-SOURCE SOFTWARE.

2022 — Present | Worldwide

EverydayBME - Co-Founder

DESIGN AND AGGREGATE DIGITAL STORYBOOKS OF BIOMEDICAL SCIENCE (RESEARCHERS, STUDENTS, ETC.) OVER THE WORLD.

WORKED WITH BMESDIVERSITY AND WHITAKER FOUNDATION TO HIGHLIGHT UNDER-REPRESENTED GROUPS IN STEM.

2019 — Present | Worldwide

AAMPLIFY 501(C) - Director of Leadership

PLANNED AND IMPLEMENT A SUMMER LEADERSHIP AND ADVOCACY PROGRAM FOR UNDER-SERVED AAPI YOUTH. ALSO INVOLVED IN RAISING OVER \$5000 AS A NON PROFIT ORGANIZATION.

2017 — Present | San Francisco, CA

Engineering & Medicine Exchange - Co-Founder

PLAN EVENTS FOR COLLABORATIONS BETWEEN ENGINEERING, MEDICINE AND PUBLIC HEALTH. ARDUINO WORKSHOP, MACHINE LEARNING IN HEALTHCARE WORKSHOP, AND ELECTRONIC HEALTH RECORDS FOR ENGINEERING WORKSHOP.

2016 — 2017 | JHU

Yale School of Management Pre-MBA Program - Global Pre-MBA Leadership Program

PLACED 3RD IN AUDUBON BUSINESS CONCEPT PITCH PLAN, AND 2ND IN AUDIENCE CHOICE AWARD.

2014 | Yale

BME PhD Council - Social Chair

COORDINATE AND PLAN EVENTS FOR INCREASING COLLABORATION WITHIN DEPARTMENT.

2016 — 2017 | JHU

Alpha Kappa Psi - Class President

LED CLASS OF 16 INDIVIDUALS.

2012 — 2014 | UCSD

Mentoring

Anil Palepu

UNDERGRAD - NOW MIT PHD

Neuromedical Control Systems Lab

2015-2017

Chester Huynh

UNDERGRAD - NOW MICROSOFT SOFTWARE ENGINEERING

Neuromedical Control Systems Lab

2018-2021

Patrick Myers

MS STUDENT AND DIRECTOR OF PRODUCT DEVELOPMENT - NOW PHD AT JHU

Neurologic Solutions

2019-2022

Sophia Zhai

UNDERGRAD

Neuromedical Control Systems Lab

2019-2022

Jordan Drew

PHD STUDENT AT UNIVERSITY OF WASHINGTON

Google Summer of Code

2022

Aaron Youn

HIGH SCHOOL STUDENT

Neuromedical Control Systems Lab

2022

Jong Shin

RESEARCH ASSISTANT AT JOHNS HOPKINS UNIVERSITY

Neurodata Lab

2022

Academic Service

Journal of Open Source Software

REVIEWER

2022

Network Neuroscience

REVIEWER

2022

NeuroImage

REVIEWER

2021-2022

IEEE Engineering in Medicine and Biology

REVIEWER

2020

Skills

Programming Bash, Python, MATLAB, Scikit-learn, Pandas, Numpy, Keras, Pytorch, Cython

Misc. Open-source, Git, Software Design and Engineering, Software Quality Control, Software Testing