Michael **House**

RESEARCHER · STUDENT

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"Learning is a constant process of discovery—a process without end."

Education

MONTCLAIR STATE UNIVERSITY
Bachelor of Arts in Psychology with minors in Neuroscience and Cognitive Science
Montclair, New Jersey, USA Fall 2022 – Spring 2025

- **GPA: 3.94 | Dean's List | Summa Cum Laude**
- **Select Courses and Learning Experiences:**
- **The Electric Brain** (2024): Practical EEG/ERP research
- **Artificial Intelligence** (2025): Technical class on AI and neural networks
- **Critical Studies in Neurodiversity** (2024): Graduate course on neurodivergent pathologies research analysis
- **Neuromuscular and Electrophysiology Laboratory Assistant** (2023): Imaging and electrophysiology research

Skills

Programming	Python, MATLAB, Presentation, LaTeX, BASH, SQL
Software	REDCAP, Curry 7, MNE-Python, EEGLAB, ERPLAB, BCILAB, NiLearn,Slicer, Freesurfer, TensoFlow, Keras, pyBrain, Brian, LSL, LabView, Windows/macOS/Linux (GUI & CLI)
Assessments	SRS, SSIS, MASQ-2, ASD-ASC, DKEFS, ADOS, KBIT/K-BIT, RNN modeling
Technical	EEG Admin/Recording/Processing, Database Admin, MRI Processing, EDGE, HPC, SLURM
Misc	Filipino Martial Arts(Doce Pares Escrima, Sayac Kali, Dog Brothers), Jun Fan Jeet Kune Do, and Brazilian Jiu Jitsu

Honors & Awards

2025	**Scholarship Recipient**, National Leadership Consortium on Developmental Disabilities	*University of Delaware, DE*
2024–2025	**SURFiN Fellow**, Simon's Foundation SURFiN Fellowship in Neuroscience	*Princeton Neuroscience Institute*
2024–2025	**Junior Research Fellow**, Wilson Center Fellowship	*Montclair State University, NJ*
2025	**Undergraduate Team Leader**, RAISE-25 AI Competition	*Rutgers University, NJ*
2024	**Research Travel Award**, Department Chair Travel Grant	*Montclair State University, NJ*
2024	**Policy Brief Winner**, Research on Interdisciplinary Studies, RIGS, Montclair State University	*Montclair, NJ*

Research Positions

Engel Lab *Princeton, NJ*
RESEARCH ASSISTANT – SURFIN FELLOW *2024–Present*
- **Princeton Neuroscience Institute**
- Conducted in-depth studies on latent circuits in recurrent neural networks. Built linear decoders, analysis pipelines, and modeled biological functions in computational neuroscience.

Wilson Center Fellowship *Montclair, NJ*
JUNIOR RESEARCHER FELLOW *2024–2025*
- **Montclair State University**
- Collaborated with Tokyo University researchers on a Bangladesh student protest anthology exploring international democratic backsliding.

Kessler Foundation Research Internship *West Orange, NJ*
RESEARCH ASSISTANT *2024*
- **Neuromuscular and Electrophysiology Laboratory, Kessler Institute**
- Assisted in studies on neuromuscular control. Gained proficiency with medical imaging, Python, and contributed to conference publications.

Autism and Neurodevelopment Lab   *Montclair, NJ*

RESEARCH ASSISTANT   *2023–Present*

- **Autism and Neurodevelopment Lab, Montclair State University**
- Conducted EEG sessions with children using ERP CORE paradigms. Mastered
  REDCap, Curry 7, MATLAB, and MNE-Python. Certified in TSI and clinical assessment scoring.

Project AROS Lab   *Montclair, NJ*

RESEARCH ASSISTANT   *2023–Present*

- **Project AROS Lab and Wilson Center**
- Developed virtual study abroad curriculum using a challenge-based
  learning model. Gained hands-on experience integrating ArcGIS with Python.

Publications & Presentations

JOURNAL ARTICLES & BOOK CHAPTERS

Legal and Institutional Barriers to Justice and Accountability   *Change and Justice in Bangladesh*

CHAPTER IN EDITED VOLUME   *2025*

- Abdullah, P. M. S., House, M. (2025). Legal and institutional barriers to justice and accountability.
  In *Change and Justice in Bangladesh* (Chapter 2).

Exploring Genetic Contributions to Autism from 2020 to 2024   *Research in Autism*

JOURNAL ARTICLE (UNDER REVIEW)   *2024*

- House, M. (2025). Exploring genetic contributions to autism from 2020 to 2024: A systematic
  review and meta-analysis of prevention, elimination, and environmental influences. *Research In Autism*.
  Manuscript under review.

CONFERENCE PRESENTATIONS & POSTERS

The Neural Dynamics of Neighboring Cells   *Simons Foundation Undergraduate Symposium*

POSTER PRESENTATION   *2025*

- House, M., Zhang, J., & Engel, T. (2025). The neural dynamics of neighboring cells. Poster presented at the
  Simons Foundation Undergraduate Symposium.

A Review of Genetic Contributions to Autism Etiology, 2020–2024   *American Psychological Association Annual Convention*

UPCOMING PRESENTATION   *2025*

- House, M. (2025). A review of genetic contributions to autism etiology, 2020–2024. Presentation at the
  American Psychological Association Annual Convention.

Democratic Backsliding in Bangladesh and the Institutional Legal Framework Aiding It   *Student Research Symposium, Montclair State University*

POSTER PRESENTATION   *2025*

- Abdullah, P. M. S., & House, M. (2025). Democratic backsliding in Bangladesh and the institutional legal
  framework aiding it. Poster presented at the Student Research Symposium, Montclair State University, Montclair, NJ.

Martial Arts as a Therapeutic Modality for Children with Autism   *Association for Behavioral and Cognitive Therapies 58th Annual Conference*

POSTER PRESENTATION   *2024*

- House, M. (2024). Martial arts as a therapeutic modality for children with autism. Poster presented
  at the Association for Behavioral and Cognitive Therapies 58th Annual Conference.

Embracing Diversity in Autism Care: Beyond ABA to Meet the Rising Needs   *Montclair State University Research Symposium*

PRESENTATION   *2024*

- House, M., Cargill, M., & Kang, E. (2024). Embracing diversity in autism care: Beyond ABA
  to meet the rising needs. Presentation at the Montclair State University Research Symposium.

The Utility of the EFCT within the Autism Population   *Montclair State University Research Symposium*

POSTER PRESENTATION   *2024*

- Lynch, E., House, M., Bsharat, W., McDonald, R. G., & Kang, E. (2024). The utility of the EFCT within the autism
  population. Poster presented at the Montclair State University Research Symposium.

The Impact of Autism Diagnosis on Stigma   *Montclair State University Research Symposium*

POSTER PRESENTATION   *2024*

- Bsharat, W., Khawar, S., Cargill, M., Lynch, E., House, M., & Kang, E. (2024). The impact of autism diagnosis on stigma: Parent-
  reported autism traits and stigma experiences in underrepresented ethno-racial minority groups. Poster presented
  at the Montclair State University Research Symposium.

The Mechanics of the One-Inch Punch and Chinese Dim Mak

ORAL PRESENTATION

- House, M. (2017). The mechanics of the one-inch punch and Chinese Dim Mak. Oral presentation at Shannon Lee's Bruce Lee Conference, Marina Del Rey, CA.

Martial Arts for Everyone: Implementing Inclusive Teaching and School Practices for Your Dojo

ORAL PRESENTATION

- House, M. (2015). Martial Arts for Everyone: Implementing Inclusive Teaching and School Practices for Your Dojo. Oral presentation at Shannon Lee's Bruce Lee Conference, Marina Del Rey, CA.

Professional Experience

IMAF and H Consulting *New York, NY*

CEO *2022 - Present*

- Established 501c3 non-profit organization developing interventions and inclusion initiatives
- Leading ER2 program grant proposals for ethical research initiatives
- Organizing advocacy events and local fundraisers for community engagement

Disney Productions *New York, NY*

FIGHT CONSULTANT & TALENT TRAINER *2018 - 2022*

- Assist fight choreography and training for major New York productions including Moon Knight and Daredevil
- Train actors in martial arts techniques, weapon handling, and combat sequences
- Design and implement complex fight scenes involving various martial arts styles and weapons

ABC Productions/Netflix *New York, NY*

FIGHT CONSULTANT & ACTOR TRAINER *2013 - 2018*

- Designed and choreographed fight sequences for television productions
- Trained actors in martial arts techniques and weapon handling
- Collaborated with technical teams on combat scene implementation

Integrated Martial Arts and Fitness *Livingston, NJ*

CEO & LEAD INSTRUCTOR *2010 - 2022*

- Founded and developed specialized martial arts program for children with special needs
- Integrated evidence-based practices through consultation with healthcare professionals
- Expanded program from 6 to 12+ students per class while maintaining individualized attention
- Managed the operations and expansion of a small business employing 8 individuals and maintaining a year-over-year growth rate of at least 15%

Certifications

fMRI Intensive Training/The Martinos Center	Boston MA *Upcoming*
Computational Neuroscience/Neuromatch Academy	NY, USA. *Upcoming*
OFS/Neuromatch Certificate	NY, USA.
Eating Disorders	Rutgers, New Brunswick, NJ.
IBM AI Developer Specialization	IBM, Parsippany, NJ.
Neuroscience and Neuroimaging Summer Program	Johns Hopkins University, Baltimore, MD.
Associate Data Scientist	Datacamp, New York, NY.
Data Analytics Professional Specialization	Google, Menlo Park, CA.
Google Cloud Digital Leader Specialization	Google, Menlo Park, CA.
Certificate in Eating Disorders	Awarded by Rutgers School of Social Work.
Developmental Disabilities	Awarded by the Rutgers School of Social Work.
Applied Data Science with Python	Awarded by the University of Michigan, Ann Arbor, MI.
Synapses, Neurons, and Brains	Hebrew University of Jerusalem, Jerusalem, Israel.

Volunteer Experience & Professional Memberships

VOLUNTEER EXPERIENCE

Docker Captain	Docker, San Francisco (2024–Present)
AI Community Ambassador	BLACKBOX AI Mavericks, Blackbox.ai, Quebec, Canada (2024–Present)
Victim Advocate	National Advocate Credentialing Program, Alexandria, VA (2024)
Mental Health First Aider	National Council for Mental Wellbeing, Washington DC (2023)
Mentor	Mentor Collective, Montclair State University, Montclair, NJ (2023–2025)
Little Ninjas Program Lead	Integrated Martial Arts and Fitness (IMAF), Livingston NJ (2014–2022)

Professional Memberships

AI and Tech Commit. Member	The Association for Behavioral and Cognitive Therapists, Philadelphia, PA (2025–Present)
Student Member	Society For Neuroscience, Washington, DC (2025–Present)
Active Member	New Jersey Neuropsychological Society, Maplewood, NJ (2024–Present)
Division Member	Society for Clinical Neuropsychology (DIV 40), Washington, D.C (2024–Present)
Member & Secretary	MSU Psychology Club & Disability Caucus, Montclair, NJ (2024–2025)
Inducted Member	National Society For Neuroscience, Washington, D.C. (2023–Present)
Member	Golden Key International Honor Society, Atlanta, GA (2023–Present)
Senior Member	IMB Academy, Carson, CA (2008–Present)