NATAN **CORESH-CHIAPPORI**

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EDUCATION

April 2024 - Present MORGAN STATE UNIVERSITY, GPA: 3.83 (current, expected)
Masters in Applied Neuroscience (Thesis Track, Partially-Funded Academic Scholarship)

- Coursework - Computational Brain Data Analysis, Learning and Cognition, Statistical Methods, Molecular & Behavioral Neuroscience, Scientific Communication & Ethics.
- At Johns Hopkins University: Epidemiologic Inference in Public Health I

2019-2022 UNIVERSITY OF MARYLAND COLLEGE PARK
B.A. in Economics with a minor in General Business, June 2022

- Coursework - Game Theory, Calculus, Intro to Psychology, Macro & Micro Economics.
- Maryland Men's Rowing - Varsity 1V Rower (1st Boat)

2017-2018 MONTGOMERY COMMUNITY COLLEGE, Rockville MD, GPA: 3.2
Undecided: Letters and Sciences

- Coursework - Biology, Philosophy, Sociology, Theater

RESEARCH EXPERIENCE

GRADUATE RESEARCH SCIENTIST - NEUROBIOLOGY OF STRESS LAB
MORGAN STATE UNIVERSITY | December 2024 - Present | Baltimore, MD

- Implemented a computer-mediated Cyberball model to examine how interactive game dynamics influence users' behavioral, affective, and physiological responses (NIMHD 2024).
- Testing a machine learning-based visual tracking model (SLEAP) for mouse behavior.
- Maintaining and coding 90's era lab hardware/software (MEDPC Programming Language) used in physiological and behavioral studies, ensuring reliability for data collection.

RESEARCH ADMINISTRATION & APPLIED AI EXPERIENCE - OFFICE OF RESEARCH ADMINISTRATION
MORGAN STATE UNIVERSITY | April -December 2024 | Baltimore, MD

- Fine-tuned and piloted a custom Language Model to assist Principal Investigators in navigating complex grant submission requirements.

RESEARCH FOR DR. ADAM KALAI
2020–2021

- Working for Dr. Adam Kalai, Senior Researcher at Microsoft Research – I evaluated Dotsies, a new alphabet system focused on chunking rather than letter-by-letter reading..

ADDITIONAL RESEARCH & INDUSTRY EXPERIENCE

FULL-TIME CONSULTANT/BUSINESS ANALYST
INTELECT CORPORATION | May 2021 - July 2023 | Baltimore, MD

- Conceptualized and led development of a low-cost cloud-based Asset Tracking App using Google AppSheet.
- Collaborated with a remote developer to implement and deploy the system, resulting in recovery of $10,000+ in company equipment through insurance claims.
- Devised an out-of-the-box Project Management solution and unique web forms saving 1000+ hours of company time and increasing customer trust. Having a lasting effect on operation

INTERN
GINGER SOFTWARE | June -August 2019

- Developed and presented a deep competitive analysis using Software Testing and Market Data for Ginger's cutting-edge Grammar API.

TECHNICAL SKILLS & LANGUAGES

TECHNICAL SKILLS: Python, R, SQL, Cloud Dataset with Jupyter Notebook, LLM Development, Website Development and Design.
LABORATORY SKILLS: Scientific Writing, Mixed Methods Research, Human Study Design, venous blood draws and PBMC purification.
LANGUAGES: English, Spanish, German.
CERTIFICATIONS: Deep Learning on Coursera, Skipper for Cross-Atlantic Boat Sailing.

PUBLICATIONS & PROPOSALS

- (In-Process) Coresh-Chiappori, N., Boyer, T., A.R. Sharrett, I. Tulloch (2025). "Hypertension and Sustained Attention Across the Adult Lifespan: Evidence from the All of Us Research Program Including 18,996 Participants"
- (In-Process) Coresh-Chiappori, N., Chen, Y. C. (2025). "The Current State of Stem Cell Therapies for Neurological Disorders: A Meta-Analysis of Cell Types, Risks, and Translational Outcomes"
- (Submitted) Designing Dignity: An AI Tool for Independent Aging in Germany

PRESENTATIONS

- Emory School of Medicine AI Datathon (2025) – 1st Place Winner Presentation –Link to Presentation–
- Cloud Computing Slides for the All of Us Dataset Grant –Link to Presentation–
- Annual Biomedical Research Conference for Minoritized Scientists, San Antonio, TX. Nov 2025. Poster Presentation "Evaluating the Relationship Between Behavioral Risk factors and Cognitive Decline Using Data from the All of Us Dataset"
- Forum for Engineered AI Systems, Deep Learning Presentation for ORA –Link to Presentation–

SCHOLARSHIPS, GRANTS, & AWARDS

- $5,000 Independent Research Grant - Exploring Human-AI Intimacy.
- Emory School of Medicine AI Datathon (2025) – 1st Place Winner; led cross-national team, developing a data project about bias in Medical Imaging embeddings.
- Cloud Computing Grant for the All of Us Dataset Training Academy at RTI (award 2U54MD013376-06A1)
- Grads 4-C Cloud Computing Conference Grant.
- Morgan State Graduate Academic Scholarship.
- Maryland Rowing - Doubles Gold Medalist.