THEODORE J. LAGROW

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EDUCATION

GEORGIA INSTITUTE OF TECHNOLOGY, The School of Electrical and Computer Engineering **Atlanta, GA**
Doctor of Philosophy in Electrical and Computer Engineering *April 2025*
• George F. Riley Fellowship Recipient, one student nominated by ECE Head for exemplary work and leadership *Oct 2020*
• Associate Degree in Higher Education from Center for the Integration of Research, Teaching and Learning *May 2020*
• *Minor:* Biomedical Engineering
• *Concentrations:* Deep Reinforcement Learning, Magnetic Resonance Imaging, and Computational Neuroscience

GEORGIA INSTITUTE OF TECHNOLOGY, Scheller College of Business **Atlanta, GA**
Master of Business Administration (MBA) *May 2022*
• *TI:GER Program Fellow:* Chosen from highly competitive group to work with a cross-functional team of PhD, MBA, and JD students to develop commercialization strategies for various startups with the goal to attract investors
• *Concentrations:* Technology Consulting, Product Management, and Data Analytics

Master of Science in Electrical and Computer Engineering *May 2019*
• *Concentrations:* Computer Vision, Signal Processing, and Theoretical Machine Learning

UNIVERSITY OF OREGON **Eugene, OR**
Bachelor of Science in Computer and Information Science (Departmental Honors) *June 2017*
Bachelor of Science in Mathematics *June 2017*
• *Minors:* Physics and Theater Arts
• *Top Research Scholarship:* Presidential Undergraduate Research Scholarship Recipient, Analysis of Neural Clustering in Mice
• *Full Tuition Based on Merit:* UO's Presidential Scholarship, UO's Summit Scholarship, Intel Scholarship Recipient
• NSF REU in the High-Performance Computing Lab under Boyana Norris, PhD, First-Author Publication (NSF Grant: 1550202)

EXPERIENCE

GEORGIA INSTITUTE OF TECHNOLOGY **Atlanta, GA**
Faculty, Lead AI/LLM Expert, College of Lifetime Learning *August 2025-Present*
• Designed and launched the FlexStack AI portfolio (currently: 2 certificates / 6 courses), built employer-aligned offerings with industry partners, cut course-build time using GenAI tooling, and served on several committees for faculty and curriculum evaluations.

Instructor of Record, College of Computing *May 2020-Present*
• Directing multiple teams of 30+ TAs for classes of 1400+ students while generating, curating, and disseminating SOTA learning material for 3 terms/year. Courses: Graduate Machine Learning, Reinforcement Learning and Decision Making, and GTA Preparation.
• Overhaul update of both CS courses with student-oriented pedagogy and developmental opportunities for TAs with public blog.

Contributing Scientist / Graduate Research Assistant / The Keilholz MIND Laboratory *May 2019-Present*
• *Exploration of Spatiotemporal Dynamics in Neurodegenerative Functional Brain Networks,* Large-scale signal characterization of low frequency fMRI BOLD images across longitudinal stages of Alzheimer's Disease. Ten papers associated. Top paper at EMBC 2025.

INSIGHT OPTICS **Atlanta, GA**
Director of Research and Development, Co-Founder *May 2018-Mar 2024*
• Directed a global team of eight engineers across the USA, Canada, Romania, and Spain to develop scalable solutions for low-resolution medical image stitching and novel panorama algorithms, enhancing prognosis of diabetic retinopathy and reducing preventable blindness in underserved rural areas spanning five states (Texas, Louisiana, Georgia, Tennessee, and Alabama).
• Spearheaded a successful $250K non-dilutive grant application with United Way Metropolitan Dallas Area, integrating proprietary technology into a large health network while leveraging AWS to ensure FDA, HIPAA, and ISO compliance for data management.
• Collected and maintained over 100K videos and tens to hundreds of millions of images, building diagnosable and proprietary machine learning models optimized for medical diagnostics and healthcare applications.
• Won prestigious pitch competitions including TiE Atlanta and TiE Global, United Way, Ideaship, and Create-X, securing $2.25MM in venture capital funding, showcasing the ability to translate technical innovations into scalable, impactful solutions.
• Delivered patented innovation (*US Patent No. 17586491, Jan. 2022*), "Capturing Diagnosable Video Content Using a Client Device," leading to scalable implementation across diverse ecosystems of healthcare platforms.

ON SEMICONDUCTOR **Gresham, OR**
IT Help Desk Intern at ON Semiconductor *Summer 2015 & Summer 2016*
• Engineered and deployed a lockdown Windows 7 image to 600+ ISO 5 cleanroom workstations in a semiconductor facility, ensuring stability, compliance, and security via GPO automation and alpha/beta testing; completed factory update ahead of schedule.

ADDITIONAL INFORMATION

Awards: Outstanding ECE/CoC Graduate Teaching Assistant (2020, 2021, 2023), NSF GRFP Honorable Mention (2019)
Skills: Product Management/Development, Adobe Products, Agile, Python/R/MATLAB/C/C++/etc., AWS, SOTA LLM/RAG/ReAct
Service: College Prep Program (CPP) at Johns Hopkins University's Applied Physics Lab