

# THEODORE J. LAGROW

Vancouver, WA

## EDUCATION

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**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

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**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

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**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