

Patrick D. Gregory

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SKILLS

Python, SQL, dashboards, documentation, experimental design, Django, Docker, data analysis, agile, Git, GitHub, MATLAB, C, CUDA, Swift, SwiftUI, Figma, L^AT_EX

Atidot **EMPLOYMENT** 2022 – 2023
Associate Product Manager

- Led requirements gathering, roadmapping, and design of a cloud-based interface for core B2B, machine-learning powered SaaS solution, contributing to six-figure increase in revenue
- Coordinated team of one designer and one developer to integrate, deploy, and maintain the aforementioned platform throughout the software development lifecycle
- Collaborated with sales team to demo product lineup to leads and potential customers
- Engaged in cross-functional meetings to procure stakeholder buy-in and define go-to-market strategies
- Tracked progress to ensure product and processes conformed to project plans and industry standards

Stanford University 2017 – 2021
Researcher

- Successfully initiated and completed numerous complex interdisciplinary projects, leveraging expertise in software, electrical, and biological engineering to ensure project completion
- Developed high-performance signal processing CUDA library, transitioning lab from multi-day protocol to real-time display *via* 100× speedup
- Spearheaded development and execution of a comprehensive light exposure model for *in vivo* human retina, resulting in successful IRB (Institutional Review Board) approval for pioneering medical research
- Designed and implemented graphical signal processing application using C# and .NET Core, enabling real-time configuration of experimental acquisition parameters, yielding 2 publications
- Constructed nanometer-sensitive interferometers that yielded world’s first non-invasive measurement of single-cell action potentials *in vivo* human retinal ganglion cells, enabling 2 publications

Georgia Institute of Technology **EDUCATION** Expected 2025
MS in Computer Science

- Machine Learning specialization

University of California, Riverside 2016
MS in Bioengineering

- *Cum laude*

California Lutheran University 2015
BS in Bioengineering, Mathematics

- *Cum laude*, NCAA Swimming

PUBLICATIONS

Mozaffari, Feroldi, LaRocca, Tiruveedhula, **Gregory**, Park, Roorda (2021). “Actively stabilized AOOCT with independent focus adjustment for optimal AOSLO eye tracking.” *Invest Ophthalmol Vis Sci.* 62(8): 10.

Mozaffari, Feroldi, LaRocca, Tiruveedhula, **Gregory**, Park, Roorda (2020). “Active eye motion correction for AOOCT guided by simultaneous AOSLO human retinal imaging.” *Invest Ophthalmol Vis Sci.* 61(7): 230.

Goetz, Ling, Gupta, Kang, Wang, **Gregory**, Park, Palanker (2018). “Interferometric mapping of material properties using thermal perturbation.” *Proceedings National Academy of Sciences.* 115(11): 2499–2508.

Tong, Hasan, **Gregory**, Shah, Park, Hirota, Liu, Choi, Low, Nam (2017). “Computationally-efficient optical coherence elastography to assess degenerative osteoarthritis via ultrasound-induced fringe washout.” *SPIE.*