University of Colorado
Anschutz Medical Campus

Introduction

We are QTIM (https://qtim-lab.github.io)— the Quantitative Translational Imaging in Medicine Lab at the Division of Artificial Medical Intelligence at the University of Colorado (CU) School of Medicine. Our team is a powerhouse of inter-disciplinary talent, comprising researchers from renowned institutions such as Harvard, MIT, Oxford, UCL, and CU Boulder. Our ranks include clinical ophthalmologists, computer and imaging scientists, programmers, and biomedical engineers. Together, we're forging ahead in the development of state-of-the-art machine learning algorithms and software tools.

Faculty – Research Instructor, Assistant Professor

You will be working in our growing Division of Artificial Medical Intelligence in Ophthalmology at The University of Colorado (CU) School of Medicine and provide expertise on the development of artificial intelligence/machine learning algorithms by integrating multiple sources of patient-derived data to improve clinical decision-making. The position will also entail publication of research findings in top venues within the field, as well as leading inter-disciplinary teams (including clinical ophthalmology, computer/imaging scientists, programmers, and biomedical engineers) to integrate developed algorithms into software for the larger research community as well as into the clinical workflow for prospective validation. Other responsibilities include ensuring research project deliverables are completed in a timely manner, supervising students and interns as well as helping out with management of regulatory activities associated with research studies, IRB submissions and assembling grant applications.

Essential Criteria

Instructor

- Master's or Doctoral degree (PhD, MD/PhD, or equivalent) in Bioinformatics, Biostatistics, Computational Biology, Data Science, Computer Science or related field such as Mathematics, Engineering or Physics.
- Research Instructor must hold an OD, PhD, or Masters followed by at least 2 years data management, project management and bioinformatic analyses experience.
- Either clinical ophthalmology expertise or programming expertise (with extensive experience in machine learning and computer vision techniques) is required.

Assistant Professor

- Master's or Doctoral degree (PhD, MD/PhD, or equivalent) in Bioinformatics, Biostatistics, Computational Biology, Data Science, Computer Science or related field such as Mathematics, Engineering or Physics.
- Research Assistant Professor must hold a PhD and at least 2 years of postdoctoral training working on AI/ML applications in biomedical imaging.
- Either clinical ophthalmology expertise or programming expertise (with extensive experience in machine learning and computer vision techniques) is required.

Desirable Skills

Instructor

- Expertise, interest or training in working data sciences for ophthalmology
- Strong publication record within ophthalmology, medical imaging, and/or computer science venues is preferred
- Experience in teaching and mentorship of graduate students, undergraduate students, and high school students is desired

Assistant Professor

- Expertise, interest or training in working data sciences for ophthalmology
- Strong publication record within ophthalmology, medical imaging, and/or computer science venues is preferred
- Experience in teaching and mentorship of graduate students, undergraduate students, and high school students is desired

Why work with us?

Collaboration and teamwork are core values of our lab. Together, we believe our interdisciplinary team can revolutionize clinical practice through cutting-edge AI and machine learning algorithms by harnessing a diverse array of patient data. By elevating clinical decision-making, we hope to create a future where clinicians are empowered in their decision making to the benefit of their patients.

Beyond the world of research, our location offers a lifestyle unlike any other. If you have a passion for hiking, skiing, climbing, and exploring the breathtaking Rocky Mountains, you've found your perfect match.

How to apply

For more information or to express your interest, please do not hesitate to contact us. Send your resume and a compelling cover letter to:

Jayashree Kalpathy-Cramer: jayashree.kalpathy-cramer@cuanschutz.edu

Steve McNamara: steve.mcnamara@cuanschutz.edu.

Praveer Singh: praveer.singh@cuanschutz.edu

We are an equal opportunity employer and value diversity. We also know that the work of diversity and anti-discrimination extends past choices in hiring. We work every single day to make our lab an equitable and productive space for everyone, regardless of their race, religion, color, national origin, gender, sexual orientation, age, marital status, veteran status, or disability status.