



Research Positions
in Image Analytics and Informatics
(URL: www.tinyurl.com/ASUPositions)



We have five research positions available in image analytics and informatics at ASU:

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Assistant/Associate Research Professorship in Image Analytics and Informatics



An Assistant/Associate Research Professorship is available in the Imaging Informatics Laboratory, Department of Biomedical Informatics, at Arizona State University (ASU). The salary is competitive, which is depending on levels of experience, qualification, and responsibility.

We are embedded in the world renowned Mayo Clinic for extensive collaborations. Our research, supported by the NIH and ASU-Mayo partnerships, lies at intersections of computer science, informatics, radiology, cardiology, biology, pathology, gastroenterology and ontology. Drawing upon computer vision, computer graphics, machine learning, and mathematics, we are developing and validating novel computational methodologies for the extraction, analysis and quantification of structural, functional, cellular, and molecular information from images acquired through various imaging modalities, and for the integration of image-based information with non-image-based information with the objective of supporting clinical decision making (in diagnosis, therapy, surgery and drug development) and facilitating precision medicine. Our research is focused not only on the development of novel computer algorithms but also on their clinical impact.

Candidates must have a doctorate in biomedical engineering, biomedical informatics, computer science, physics, mathematics or another relevant field. Applicants with a strong record of peer-reviewed publications and experience in machine learning (deep learning, active learning, weakly-supervised learning, and multiple-instance learning), large-scale optimization, super-resolution imaging, and high-performance computing are especially encouraged to apply.

The research professor will work closely with imaging specialists and clinicians at Mayo Clinic, have opportunities to supervise graduate students and determine the research agenda of the research lab. The researcher should have strong motivation for conducting high-quality research and publishing in top journals and conferences, strong interpersonal skills, be able to work independently on problems, be an effective team player, and be willing to accept challenges and leadership responsibilities.

The initial appointment is for one year and is renewable for up to five years subject to continued availability of funding. Interested candidates should send (preferably as PDFs via e-mail) (1) a copy of their curriculum vitae; (2) a statement of research interests; (3) selected best publications; and (4) the names of four references to:

Jianming Liang, PhD
Associate Professor
Department of Biomedical Informatics, Arizona State University
Johnson Research Building, Mayo Clinic Arizona
13212 East Shea Boulevard, Scottsdale, AZ 85259

Email: jianming.liang@asu.edu

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Postdoctoral Fellowship in Image Analytics and Informatics



A postdoctoral fellowship is available in the Imaging Informatics Laboratory, Department of Biomedical Informatics, at Arizona State University (ASU). The salary is competitive, which is depending on levels of experience, qualification, and responsibility.

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Candidates must have or soon expect to receive a doctorate in biomedical engineering, biomedical informatics, computer science, physics, mathematics or another relevant field. Advanced mathematical and programming skills are expected. Applicants with a record of peer-reviewed publications and experience in machine learning (deep learning, active learning, weakly-supervised learning, and multiple-instance learning), large-scale optimization, super-resolution imaging, and high-performance computing are especially encouraged to apply.

The postdoctoral fellow will work closely with imaging specialists and clinicians and have opportunities to work with graduate students and determine the research agenda of the lab. The researcher should have strong motivation for conducting high-quality research and publishing in top journals and conferences, strong interpersonal skills, be able to work independently on problems, be an effective team player, and be willing to accept challenges and leadership responsibilities. This postdoctoral fellow may also be hired through Mayo Clinic in Arizona subject to approval.

The initial appointment is for one year and is renewable for up to three years subject to continued availability of funding. Interested candidates should send (preferably as PDFs via e-mail) (1) a copy of their curriculum vitae; (2) a statement of research interests; (3) selected best publications; and (4) the names of three references to:

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Research Software Engineer in Image Analytics and Informatics



A Research Software Engineer position is available in the Imaging Informatics Laboratory, Department of Biomedical Informatics, at Arizona State University (ASU). The salary is competitive, which is depending on levels of education, experience, qualification, and responsibility.

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Candidates must have a degree in biomedical informatics, computer science, or another relevant field, exceptional skills in MATLAB, C++, Java, Python, Perl, and/or JavaScript programming, familiarity with high-quality software practices (fast-prototyping, test-driven development, design patterns, etc.), and demonstrated software development expertise (e.g., active github account, successful project, and documented open-source contribution). Good understanding of algorithms in image analysis, computer vision, computer graphics, and machine learning is preferred.

The Research Software Engineer will work closely with postdoctoral fellows, graduate students, imaging specialists and clinicians to develop next-generation, high-performance systems in image analytics and informatics. The engineer should have strong motivation to work amicably with researchers for conducting high-quality research and publishing in top journals and conferences, strong interpersonal skills, and be willing to accept challenges and leadership responsibilities. This software engineer may also be hired through Mayo Clinic in Arizona subject to approval.

The initial appointment is for one year and is renewable on a yearly basis subject to continued availability of funding. Interested candidates should send (preferably as PDFs via e-mail) (1) a copy of their curriculum vitae; (2) a personal statement; (3) selected best available publications; and (4) the names of three references to:

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PhD Fellowship in Image Analytics and Informatics



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Candidates must have or soon expect to receive a degree in biomedical engineering, biomedical informatics, computer science, physics, mathematics or another relevant field, must apply or transfer to and be accepted in a graduate program through the normal ASU application process. Strong mathematical and programming skills are expected. Applicants skilled in image analysis, computer vision, computer graphics, and machine learning are especially encouraged to apply.

The PhD fellow will work closely with imaging specialists and clinicians, and have opportunities to define the research agenda of the research lab. The student should have strong motivation for conducting high-quality research and publishing in top journals and conferences, strong interpersonal skills, be able to work independently on problems, be an effective team player, and be willing to accept challenges and leadership responsibilities.

The initial support is for one year and it is renewable as a research assistantship for up to four years subject to continued availability of funding. Interested candidates should send (preferably as PDFs via e-mail) (1) a copy of their curriculum vitae; (2) a statement of research interests; (3) selected best available publications; and (4) the names of three references to:

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Visiting Scholarship/Studentship in Image Analytics and Informatics



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Candidates must have or soon expect to receive a degree in biomedical engineering, biomedical informatics, computer science, physics, mathematics or another relevant field. Strong mathematical and programming skills are expected. Applicants skilled in image analysis, computer vision, computer graphics, and machine learning are especially encouraged to apply.

The visiting scholar/student will work closely with imaging specialists and clinicians. The scholar/student should have strong motivation for conducting high-quality research and publishing in top journals and conferences, strong interpersonal skills, be able to work independently on problems, be an effective team player, and be willing to accept challenges and leadership responsibilities. This scholar/student may also be hired through Mayo Clinic in Arizona subject to approval.

The initial support is for one year and is renewable for up to two years subject to continued availability of funding. Interested candidates should send (preferably as PDFs via e-mail) (1) a copy of their curriculum vitae; (2) a statement of research interests; (3) selected best available publications; and (4) the names of three references to:

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