

Postdoc in Signal & Image Processing, Visualization,  
Deep learning/AI  
University of California, Davis

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Posted Jan. 13, 2021, set to expire May 15, 2021

<b>Job Title</b>	Postdoc in Signal & Image Processing, Visualization, Deep learning/AI
<b>Department</b>	Biomedical Engineering <a href="https://marculab.bme.ucdavis.edu/">https://marculab.bme.ucdavis.edu/</a>
<b>Institution</b>	University of California, Davis Davis, California
<b>Date Posted</b>	Jan. 13, 2021
<b>Application Deadline</b>	Open until filled
<b>Position Start Date</b>	Available immediately
<b>Job Categories</b>	Post-Doc
<b>Academic Field(s)</b>	Optics & Optical Engineering Computer Science Bioengineering (all Bio-related fields) Engineering - Other
<b>Apply By Email</b>	<a href="mailto:Imarcu@ucdavis.edu">Imarcu@ucdavis.edu</a>

**Job Description**

Postdoctoral research positions are open for applicants with strong expertise and experience in data analysis and image processing in the Biophotonics Laboratory (<https://marculab.bme.ucdavis.edu/>) at the University of California Davis (Department of Biomedical Engineering). We are looking for highly motivated individuals with interest in research and applications of data analytics methods to support the development and clinical validation of novel optical imaging techniques for image-guided surgery of brain and head and neck cancer and other medical interventions.

The successful applicant will:

- contribute to the development of new analytical methods and/or the application of machine learning methods including deep learning AI to support data analysis and visualization of fluorescence lifetime data acquired in clinical setting (classification, motion correction, segmentation, quantitative imaging)

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- contribute to the integration of optical technologies with existing surgical platforms such as Da Vinci surgical robot, surgical microscope, and surgical navigation systems
- work in collaboration with clinical departments within the UC Davis School of Medicine (e.g. Neurological Surgery and Otolaryngology-Head and Neck Surgery) and industry partners.
- work on National Institutes of Health (NIH) funded multidisciplinary projects focused on research, development and clinical translation of optical techniques for in-vivo diagnosis of human diseases, robotics, image-guided interventions, and decision making.

Qualifications: Candidates must have a Ph.D. degree and strong background in statistical methods, machine learning, and data visualization. Proficiency in coding using MATLAB, Python, C++ is required. The candidate must have the ability to work in a highly collaborative, multidisciplinary environment and strong communication and interpersonal skills.

Application: Interested applicants should submit via e-mail a complete curriculum vitae, the contact information for three references, a short statement of research interest, and a copy of one or two publication from previous research to: Professor Laura Marcu, Department of Biomedical Engineering, University of California, Davis; e-mail: [Imarcu@ucdavis.edu](mailto:Imarcu@ucdavis.edu)

University of California, Davis is located in Northern California, within easy reach of Lake Tahoe, San Francisco, Napa Valley, Yosemite and the Northern California coast.

### Contact Information

Please reference Academickeys in your cover letter when applying for or inquiring about this job announcement.

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