

Ph.D. / Postdoc Opportunities @ Visual Intelligence Lab

(March 30, 2019)

Job Description

The Visual Intelligence Laboratory at the University of Iowa is looking for highly-motivated, self-driven graduate research assistants and postdoctoral research fellows to conduct computer vision and machine learning research. Successful candidates are expected to participate in one or more of the following research projects:

- **Multiscale computational mechanics simulation via deep learning**
Available Positions: 2
Funding Source: U.S. Air Force
- **Human motion analysis using convolutional neural networks**
Available Positions: 1~2
Funding Source: Industry
- **Medical image analysis for quantitative cancer prognosis**
Available Positions: 1
Funding Source: National Institute of Health (NIH)

Salary and other benefits such as health insurance are included, as well as a full tuition support for Ph.D. students. Qualified candidates are expected to have the necessary skillsets listed below. To apply, please contact Prof. Steve Baek via stephen-baek@uiowa.edu. Questions are welcomed. Female students and students from underrepresented minority groups are strongly encouraged to apply. Upon equal qualification, priority will be given to those students.

Basic Qualifications (in the order of importance)

- Being a decent and friendly person.
- Self-motivation and ability to solve complex problems in creative ways.
- Excellent oral/written communication skills. Not simply a high TOEFL score but being a good storyteller.
- Strong background in mathematics, especially: Engineering Mathematics, Linear Algebra, Vector Calculus, Optimization, and/or Differential Equations.
- Proficiency in at least one programming language.
- Publication in top-tier journals/conferences (Postdoc).

About Us

The Visual Intelligence Laboratory is one of the most rapidly growing research groups at the University of Iowa. Areas of interest include computational geometry, computer vision, and machine learning in connection with human factor analysis, computational design, and medical image analysis. The lab has been successfully conducting a variety of government-/industry-funded research projects, including the U.S. Department of Defense, U.S. Department of Transportation, Hyundai Motor Company, and many others. Being a member of the Center for Computer-Aided Design (<http://www.ccad.uiowa.edu>), the lab has strong collaborative relationships with other CCAD divisions such as the National Advanced Driving Simulator (<https://www.nads-sc.uiowa.edu>) as well as other entities across the campus. These are all highly successful, internationally-recognized programs that are at the core of the University of Iowa's research success (<https://now.uiowa.edu/2018/03/president-harreld-importance-groundbreaking-ui-research>). For more about us, please visit <http://www.stephenbaek.com/lab>.

