

ERIK J. COLE

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EDUCATION

Appalachian State University

2016 - Present

Master of Science(MSc): Computer Science

GPA: 3.65/4

The Univeristy of Iowa

2010 - 2015

Bachelor of Science in Engineering: Biomedical Engineering

GPA: 3.04/4

WORK EXPERIENCE

Department of Computer Science, Appalachian State University

Fall 2016 - Present

Graduate Research Assistantship

- Worked independently on a medical imaging project
- Ran undergraduate study halls twice a week

Orthopedic Biomechanics Lab

Fall 2014 - Spring 2016

Research Assistant

- Managed the histology slide scanning workflow to efficiently utilize the digital microscope
- Created image analysis protocols to automate image classification, increasing the amount of slides analyzed per hour by 40
- Analyzed slides and prepared spreadsheets of data for use in papers and grant applications

Iowa Institute of Hydraulic Research

Summer 2012 - Fall 2014

Student Computer Consultant

- Rose to a leadership position and managed other students
- Solved technical problems for professors and students
- Prepared inventory reports and verified their accuracy
- Worked independently in a separate building to assist the Iowa Geological Survey

Virtual Soldier Research

Spring 2011 - Summer 2012

Undergraduate Research Assistant

- Validated simulation data produced by comparing it with results produced by another university
- Provided comprehensive reports to the team which was used as the basis for further work

ADDITIONAL

Published Papers

- Marler, T., Frey-Law, L., Mathai, A., Spurrier, K., Avin, K., and Cole, E. (2012), "Integration of Strength Models with Optimization-Based Posture Prediction," 2nd International Conference on Applied Digital Human Modeling, July, San Francisco, CA.
- Jessica E. Goetz, Erik Cole, Emily B. Petersen, Gail Kurriger, Douglas C. Fredericks, James A. Martin (2016) Inflammation Following an Intra-articular Fracture in a Large Animal Model of PTOA, Orthopedics Research Society Annual Meeting, March, Orlando, Florida

Programming Languages

- C, C++, Java, HTML, PHP, Python, Matlab