

# ALYSSA M. HESTER

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## PROFESSIONAL EXPERIENCE

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### COUNTERPOINT CONSULTING

Vienna, VA

*BPM Application Developer*

August 2014 – Present

- Developed business processes to aid DHS in reviewing, classifying, and evaluating the quantity and security of chemicals possessed by over 40,000 chemical facilities across the U.S. using Appian 7.6 BPM platform
- Built additional application functionality such as a facility search box tool and document generation using JavaScript, Java, and SQL
- Developed custom banner for the client and added it to the application using CSS and HTML
- Communicated with client to provide technical support and maintenance for the application
- Wrote documentation for application as well as documentation for proprietary internal projects
- Developed OpenText RFXCenter as part of a team using Spring MVC framework
- Assisted with the acquisition of new clients as a pre-sales engineer by writing and editing RFP responses

### LEONARD DAVIS INSTITUTE OF HEALTH ECONOMICS AT UPENN

Philadelphia, PA

*Research Assistant*

May 2014-August 2014

- Acquired, cleaned, and analyzed nursing facility data using STATA to understand long term care insurance lapsation patterns
- Developed a financial model for a proposed Orthopaedic Center to be built in Moshi, Tanzania
- Presented final research projects to 30 Leonard Davis Institute members, faculty, and students

### DEPARTMENT OF RADIATION ONCOLOGY AT THE UNIVERSITY OF VIRGINIA

Charlottesville, VA

*Research Assistant*

August 2013-May 2014

- Developed a multi-resolution feature selection algorithm in MATLAB to determine image similarity using correlation coefficients and scalar intensity differences to enhance accumulated dose computation
- Tested algorithm to determine reduced dose size grid locations for 1 lung and 2 liver patients
- Increased computation efficiency of accumulated dose calculations by 21% - 48% with less than 2.5% variation in accuracy from traditional methods
- Wrote technical thesis and presented research to Biomedical Engineering faculty and students

## SKILLS & INTERESTS

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**Computer Skills:** Proficient in Java, MATLAB, JavaScript, jQuery, SQL, HTML, CSS, Appian BPMS, OpenText ProcessSuite, SVN, STATA, AJAX, Microsoft Office, Spring MVC, AngularJS

**Languages:** Proficient in German

**Interests:** Soccer (Borussia Dortmund), video games, guitar, travel

**Other Information:** Active Secret Security Clearance

## EDUCATION

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### UNIVERSITY OF VIRGINIA, SCHOOL OF ENGINEERING AND APPLIED SCIENCES

Charlottesville, VA

Bachelor's of Science in Biomedical Engineering, Engineering Business Minor

May 2014

Rodman Scholar – awarded to students in the top 5% of their engineering class

Fall 2010