

## Joan Smith

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**Ongoing Research: Biology Professor Angelika Amon** 01/2011 - present  
Part time work providing bioinformatics consultation, particularly in developing useful tools for scientists to clean data, do repetitive analysis tasks, and understand computational limitations.

**UROP: Physics Professor Isaac Chuang** 05/2011 - 06/2012  
Worked part time during the summer, concurrent with work at Accenture.  
Participant in Polar Molecules experiment, learned to focus and align lasers, work with recirculating liquid hydrogen, and collect data using data acquisition software.  
Current work involves upgrading data acquisition system and building a small laser system to measure and record frequency and power of lasers in use.

**UROP: Physics Professor Joe Formaggio** 01/2011 - 05/2011  
Designed and developed particle physics simulations for the Kassoiepeia experiment located in Karlsruhe, Germany.  
Worked in C++ using standard libraries to enhance support for complex experimental geometries for simulation and data analysis.  
Traveled to Germany to participate in the collaboration meeting and aid development of code.

**UROP: Computer Science Professor Martin Rinard** 01/2009 - 9/2010  
Using Pin and C to determine memory usage of a program based on input characteristics to predict how much memory is needed a priori.

### Course Work:

Cumulative GPA: 4.3

Transcript attached.

Planned courses include:

- Biology
- Theory of Computation (Sipser)
- Electromagnetism
- Philosophy
- Thesis