

OHSU

Summer Undergraduate Research Opportunity in Computer Science

Spend your summer in the beautiful Portland metropolitan area.

Apply your knowledge, experience the creativity of research, increase your professional competence, and engage in tackling real-world problems through the summer research opportunity in computer sciences at OHSU. Several National Science Foundation funded opportunities exist for research in speech, natural language, and other sequence processing problems in the Center for Spoken Language Understanding, part of the Department of Computer Science & Electrical Engineering at the OGI School of Science & Engineering at OHSU. Potential projects include

- Multilingual speech recognition: Improve stochastic language models for speech recognition systems in languages other than English, such as Turkish or Arabic
- Machine translation: Develop novel machine learning techniques for improving Chinese-English machine translation systems
- Spoken language assesment: New algorithms for extracting characteristics of spoken language (such as syntactic complexity or pause frequency and duration) to improve automated neuropsychological assessment
- Spoken term detection: Finding instances of a query term in a large collection of speech
- Robot-assisted surgery: Modeling surgical gestures using control signals from a da Vinci surgical system

The positions include an NSF-REU stipend for 8 weeks during the summer. Research supervision will be available to continue the research during the academic year, and publications are expected to result from the work achieved.

We encourage students majoring in computer science, mathematics or related disciplines to apply. Juniors who have taken courses in statistics, probability and/or linear algebra will be given preference. To apply, send your curriculum vitae and contact information for two references before April 1, 2008 to roark@cslu.ogi.edu. Applications will be processed as they are received. For more information, visit faculty webpages:

<http://www.cslu.ogi.edu/people/roark/>

<http://www.cslu.ogi.edu/people/zak/>

