

Leigh-Anne Isabelle Mathieson

Contact Information

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EDUCATION

Bachelor of Science, Computer Science
University of British Columbia, Vancouver, BC
Expected graduation date May 2012

RESEARCH INTERESTS

- The computational complexity of problems relevant to biomolecular computing
- RNA kinetics

PUBLICATIONS

- C. Thachuk, J. Manuch, A. Rafiey, L. Mathieson, L. Stacho, and A. Condon. *An algorithm for the energy barrier problem without pseudoknots and temporary arcs*, Pacific Symposium on Biocomputing, 15:108-119, 2010.

POSTERS

- L. Mathieson and A. Condon. *The worst minimum energy barrier for the RNA Folding Pathway Problem for AU-instances is 2*. The Molecular Programming Project Workshop, Friday Harbour Labs, WA, 2011.
- L. Mathieson and A. Condon. *Temporary and Repeated Arcs in RNA Folding Pathways*, UBC CS Undergraduate Poster Competition, 2010.

AWARDS AND SCHOLARSHIPS

- Natural Sciences and Engineering Research Council Undergraduate Student Research Award
2009 – 2011
- Canada Millennium Scholarship
2007
- New Relationship Trust Scholarship
2007, 2011

RELEVANT WORK EXPERIENCE

Undergraduate Teaching Assistant

Summer 2011

CPSC 210: Software Construction

UBC Department of Computer Science, Vancouver, BC

Undergraduate Summer Research Assistant to Professor Anne Condon

Summers 2009-2011

UBC Department of Computer Science, Vancouver, BC

DEPARTMENT SERVICE

- Undergraduate representative on the Focus on Women in Computing Committee
2010–present
- Volunteer Group Leader for GirlSmarts, Computer Science workshops for grade six girls
2010