

Curriculum Vitae for Vivija Ping You

Email: vyou@ryerson.ca

EDUCATION

1. PhD Candidate (Sep 2013-Present) Ryerson University, Toronto, O.N. Canada.
Specialization: Economics.
2. Master of Applied Math (Sep 2011-Aug 2013) Ryerson University, Toronto, O.N. Canada.
Specialization: Graph Theory.
Thesis: Distance k Cops and Robbers and Graph Cleaning.
Thesis Supervisors: Anthony Bonato, Paweł Prałat.
3. PhD Candidate (Aug 2009-May 2011) West Virginia University, Morgantown, W.V. USA.
Specialization: Algebra and Topology.
4. Master of Science (Sep 2007-Aug 2009) Simon Fraser University, Burnaby, B.C. Canada.
Specialization: Computational Biology.
Thesis: On Matrices that do not have the Consecutive Ones Property.
Thesis Supervisor: Cedric Chauve.
5. Bachelor of Science (Honors with distinction) (Sep 2003-Apr 2007) University of Victoria, Victoria, B.C. Canada.
Specialization: Pure Mathematics.

EMPLOYMENT HISTORY

1. Teaching Assistant (Sep 2013-Present) Ryerson University, Toronto, O.N. Canada.
Holding office hours for Econometrics, Microeconomics and Macroeconomics.

2. Research Assistant (May 2012-Aug 2013) Ryerson University, Toronto, O.N. Canada.
Discovering new results for graph searching games and graph cleaning models.
3. Teaching Assistant (Sep 2011-Aug 2013) Ryerson University, Toronto, O.N. Canada.
Teaching labs for Calculus, Discrete Math, Differential Equations, Graph Theory, Number Theory, etc.
4. Teaching Assistant (Aug 2009-May 2011) West Virginia University, Morgantown, W.V. USA.
Teaching lectures while instructor is away; creating quizzes and exams; conducting labs.
5. Research Assistant (Jan 2008- Aug 2009) Simon Fraser University, Burnaby, B.C. Canada.
Understanding the transfer of DNA sequences to combinatorial configurations; proving new results.
6. Teaching Assistant (Sep 2007- Aug 2009) Simon Fraser University, Burnaby, B.C. Canada.
Conducting calculus labs; marking assignments and exams; invigilating exams.
7. Teaching Assistant (Jan 2007-Apr 2007) University of Victoria, Victoria, B.C. Canada.
Conducting open labs for engineering students; answering and explaining math problems.

PUBLICATION

Minimal Conflicting Sets for the Consecutive Ones Property in Ancestral Genome Reconstruction.

Cedric Chauve, Utz-Uwe Haus, Tamon Stephen, Vivija P. You.

Journal of Computational Biology. September 2010, 17(9): 1167-1181.

PRESENTATIONS

1. Distance k Cops and Robbers and Graph Cleaning (Aug 2013), Thesis Defence, Ryerson University.

2. Distance k Cops and Robbers and Graph Cleaning (Apr 2013), Graduate Seminar, Ryerson University.
3. Distance k Cops and Robbers and Brush Cleaning on Graphs (Apr 2013), Graphs at Ryerson Seminar, Ryerson University.
4. The Cop Number and Treewidth (Apr 2013), Ryerson University.
5. The Art Gallery Problem (Dec 2011), Ryerson University.
6. On Matrices that do not have the Consecutive Ones Property (Aug 2009), Thesis Defence, Simon Fraser University.
7. Rosenbluth Method for Self-avoiding Walks and Polygons (Jul 2008), Simon Fraser University.
8. The Complexity of the Protein Folding Problem (Apr 2008), Simon Fraser University.
9. Physical Mapping of DNA (Nov 2007), Simon Fraser University.

COMPUTER SKILLS AND ACTIVITIES

1. Latex, Maple, R.
2. Member of Graphs at Ryerson(G@R) (Sep 2011-Present), Ryerson University.
3. 2nd Graph Searching in Canada (GRASCan) Workshop (Apr 2013), Ryerson University.
4. AARMS(Atlantic Association for Research in the Mathematical Sciences) Summer School (July 2012), Memorial University of Newfoundland.
5. 1st Graph Searching in Canada (GRASCan) Workshop (May 2012), Ryerson University.

AWARDS

1. \$7,000 Ryerson Graduate Scholarship (Sep 2013-Aug 2014), Ryerson University.

2. \$6,500 Ryerson Graduate Award (Sep 2013-Aug 2014), Ryerson University.
3. \$15,000 Queen Elizabeth Graduate Scholarship (Sep 2012-Aug 2013), Ryerson University.
4. \$1,000 Mathematics Graduate Award (Sep 2011-Aug 2012), Ryerson University.
5. \$6,500 Ryerson Graduate Award (Sep 2011-Aug 2012), Ryerson University.
6. Full Tuition Waive (Aug 2009-May 2011), West Virginia University.
7. \$2,500 Entrance Scholarship (Sep 2007), Simon Fraser University.

VOLUNTEER

1. Jazz Fest (Jun-Jul 2006), Victoria B.C.
2. The Lodge at Broadmead-care Society for Veterans and Seniors (Dec 2004-Dec 2005), Victoria B.C.

Assisting wheel chair residents to the Sunday Hymn Sing.
3. Folk-Fest (Jul 2004), Victoria, B.C.

OTHER INTERESTS

Swimming, Biking, Singing, Chinese Chess, Puzzle Games, Cooking, My Cat Sabrina.