Curriculum Vitae

Violet R. Syrotiuk

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Background

a. Education

**Ph.D.** (Computer Science) 1992, University of Waterloo, Waterloo, ON, Canada.
“Wang Tilings and Distributed Orientation on Anonymous Torus Networks.”
Advisors: Dr. Charles J. Colbourn and Dr. Jan K. Pachl.

**M.Sc.** (Computer Science) 1984, University of British Columbia, Vancouver, B.C., Canada.
“A Functional Programming Language with Context Free Grammars as Data Types.”
Advisors: Dr. Akira Kanda and Dr. Harvey Abramson.

**B.Sc.** (Computer Science) 1983, University of Alberta, Edmonton, AB, Canada.

b. Academic Experience

**Arizona State University,** Department of Computer Science and Engineering,
(Tenured) Associate Professor. Since 2008.

**Arizona State University,** Department of Computer Science and Engineering,
(Tenure Track) Associate Professor. Since 2006.

**Arizona State University,** Department of Computer Science and Engineering,
(Tenure Track) Assistant Professor. 2002–2006.

**University of Texas at Dallas,** Department of Computer Science,
(Tenure Track) Assistant Professor. 1999–2002.

Publications

Names in bold indicate my graduate students.

a. Refereed Archival Journal Papers


b. National and International Conference Proceedings Refereed Papers


c. Book Publishing


d. Other Publications


e. Invited Presentations


4. ‘Screening Experiments: Do Interactions Matter?,” Seminar, Department of Information Technology, Ghent University - imec, Ghent, Belgium, September 22, 2017.


7. “Locating Arrays and Screening Interactions,” Seminar, Department of Mathematics, Beijing Jiaotong University, Beijing, China, July 1, 2016.


### Research Grants

#### a. Sponsored Research — External


2. Principal Investigator, “Collaborative Research: Broadening Participation in GENI,” $197,555, plus supplement of $35,476, amending the total to $233,031, National Science Foundation Award 1649564, Collaborator: A. Matta (Boston University), December 2016 – December 2019.

3. Principal Investigator, “NSF Student Travel Grant for the 2019 Twentieth ACM International Symposium on Mobile Ad Hoc Networking and Computing (MobiHoc),” $13,000, National Science Foundation CNS Award 1917064, June 1, 2019 – November 30, 2019.


17. Co-Principal Investigator, “Meta-MAC Protocols: A New Dimension to Adaptation in Medium Access Control,” $300,000, National Science Foundation, NSF ANI-0105985, Principal Investigator: A. Faragó (University of Texas at Dallas), September 2001 – August 2006.


Student Theses and Dissertations Supervised

a. Masters Theses Awarded


b. Doctoral Dissertations Awarded


c. Post-Doctoral Fellows

1. Daniel Horsley, May 2010-February 2011. (Co-advised with Professor C. J. Colbourn.)

2. Yasmeen Ahktar, January 2019-December 2019. (Co-advised with Professor C. J. Colbourn.)

Professional and Scientific Service

a. Scientific and Professional Society Memberships

• Association for Computing Machinery (ACM)

• Institute of Electrical and Electronics Engineers (IEEE)

• American Society for Engineering Education (ASEE)

• The Institute for Operations Research and the Management Sciences (INFORMS)
b. Conference Activities

Conference activities are not up-to-date.

- Co-Chair Technical Program Committee, with Lucas Nussbaum (Universite de Lorraine), *3rd International Workshop on Computer and Networking Experimental Research Using Testbeds (CNERT)* in conjunction with *IEEE International Conference on Computer Communications (INFOCOM)* 2016.
- Chair, Organizing Committee, GENI Regional Workshop at Arizona State University, Tempe, Arizona, U.S.A., March 7, 2016.
- Co-Chair Technical Program Committee, with Edgar Chávez (Universidad Michoacana, Mexico), *4th International Conference on Adhoc Networks and Wireless (Ad Hoc Now)* 2005.
- Technical Program Committee:
- ACM International Workshop on Discrete Algorithms and Methods for Mobility (DIAL-M) 2001
- ACM Joint Workshop on Foundations of Mobile Computing (DIAL-M/POMC) 2004
- ACM International Workshop on QoS and Security for Wireless and Mobile Networks (Q2SWINET) 2006
- ACM Workshop on Performance Evaluation of Wireless Ad Hoc, Sensor, and Ubiquitous Networks (PE-WASUN) 2005
- IEEE Annual Joint Conference of the Computer and Communications Societies (Infocom) 2005–2011
- IEEE Global Telecommunications Conference (Globecom) 2006–2009
- IEEE International Conference on Communications (ICC) 2006
- IEEE International Conference on Distributed Computing in Sensor Systems (DCOSS) 2006
- IEEE International Conference on High Performance Computing (HiPC) 2005
- IEEE International Conference on Quality of Service in Heterogeneous Wired/Wireless Networks (QShine) 2004
- IEEE International Workshop on Mobile Vehicular Networks (MoVeNet) 2007
- IEEE Workshop on Autonomic and Opportunistic Communications (AOC) 2007
- IFIP Mobile and Wireless Communications Networks Conference (MWCN) 2004, 2006
- Microsoft International Conference on E-business and Telecommunication Networks (ICETE) 2005
- Colloquium on Structural Information and Communication Complexity (Sirocco) 2006
- Grace Hopper Celebration of Women in Computing (GHC) 2002
- International Conference on Adhoc Networks and Wireless (Ad Hoc Now) 2004–2009
- International Conference on Integrated Internet Ad hoc and Sensor Networks (InterSense) 2006
- International Conference on Telecommunications and Multimedia (TEMU) 2006
- International Workshop on Convergence of Heterogeneous Wireless Networks (ConWin) 2005
• Workshop on Modeling and Optimization in Mobile, Ad Hoc and Wireless Networks (WiOpt) 2003–2005

  • Ad hoc Reviewer for:
    – IEEE Communications Magazine
    – IEEE Instrumentation and Measurement Magazine
    – IEEE Network Magazine
    – IEEE Personal Communications Magazine
    – IEEE Wireless Communications Magazine
    – IEEE Annual Joint Conference of the Computer and Communications Societies (Infocom) 2002–2004
    – IEEE Global Telecommunications Conference (Globecom) 2004
    – IEEE International Conference on Communications (ICC) 2002–2003
    – IEEE International Conference on Distributed Computing Systems (ICDCS) 2003
    – ACM International Workshop on Mobility Management and Wireless Access (MobiWac) 2004
    – European Wireless 2002, 2005
    – International Conference on Computer Communications and Networks (IC3N) 2001

c. Journal Referee Service

  • Editorial Board, Computer Networks (Elsevier), since 2004
  • Editorial Board, Computer Communications (Elsevier), since 2008

  • Reviewer for:
    – IEEE/ACM Transactions on Networking
    – IEEE Journal on Selected Areas in Communications
    – IEEE Transactions on Computers
    – IEEE Transactions on Mobile Computing
    – IEEE Transactions on Parallel and Distributed Systems
    – IEEE Transactions on Pervasive and Mobile Computing
    – IEEE Transactions on Vehicular Technology
    – IEEE Transactions on Wireless Communications
    – Elsevier, Computer Communications
    – Elsevier, Computer Networks
    – Elsevier, Journal of Parallel and Distributed Computing
    – Elsevier, Journal on Wireless Networks
    – Elsevier, Pervasive and Mobile Computing Journal
    – ACM Computing Reviews
    – ACM Mobile Computing and Communications Review
– ACM/Baltzer Wireless Networks
– ACM/Kluwer Mobile Networking and Applications
– Oxford University Press, The Computer Journal
– SCS Simulation: Transactions of the Society for Modeling and Simulation International
– Springer-Verlag, Algorithmica
– EURASIP, Journal on Wireless Communications and Networking
– Australasian Journal of Combinatorics

d. Proposal Reviewer Service

• National Science Foundation, U.S.A.
• Natural Sciences and Engineering Research Council of Canada (NSERC), Canada.
• National Research Foundation, Singapore.
• Qatar Foundation, Qatar.
• Swiss National Science Foundation, Switzerland.

University Committee Service

a. University

• Working Group for Research Computing (WGRC), Arizona State University, since Fall 2015.
• Faculty Advisory Council, Eugene McDermott Scholars Program, University of Texas at Dallas. Spring 2001 – Summer 2002.
• Committee on Student Life, University of Texas at Dallas. Fall 2000 – Summer 2002.

b. College

• Telecommunications Engineering Undergraduate Curriculum Committee, Erik Jonsson School of Engineering and Computer Science, University of Texas at Dallas. Summer 2001 – Summer 2002.

c. Department

• Chair, CSE Undergraduate Program Committee (UPC), 2014-2017.
• Administration and Planning (APC) Committee, 2014-2016.
• Personnel Committee, 2011.
• Lead of NSF Sponsored Integration of Parallel and Distributed Concepts into our Undergraduate Curriculum, 2011.
• Undergraduate Admissions Committee, AY 2004–2005.
• ACM Student Society Faculty Liaison, AY 2004–2005.
• Member of the Networks Technical Area Committee (Chair in AY 2004-2005) and the Operating Systems Technical Area Committee. Since Fall 2002.
• NSF 00-5 CISE Research Infrastructure Program, proposal committee. Summer 2001.
• CS Equipment committee. Fall 2000 – Fall 2001. Built CS technical support team after ECS split, planning for new ECS building, and support for network programming courses with cluster of 50 Netras.
• Volunteered to participate in WebCT (Web Course Tools) pilot program. Fall 2000. Helped encourage and facilitate its use by the CS department.
• CS Undergraduate curriculum committee. Fall 1999 – Summer 2002.
• CS Graduate student advising, including the formulation of degree plans, and the evaluation of waiver and transfer requests. Introduced the idea of degree planning seminars. Fall 1994 – Fall 1999.
• CS Curriculum subcommittee. Introduced a proposal to redefine the contents of the networks courses to form a two course sequence. Fall 1998.
• Committee responsible for defining the Fast-Track program, the possibility to earn both the B.S. and M.S. degrees in Computer Science in five years of study. Spring 1996.
• CS Curriculum subcommittee. Introduced a proposal to delete Systems Programming and redefine CS 6378 as a course in distributed operating systems. Spring 1995.
• Other:
  – Invited to present to the Women in Computer Science group, Arizona State University, October 22, 2003.
  – Invited to panel on Dissertation Writing for Ph.D. students, organized by the Graduate Office, University of Texas at Dallas, July 16, 2002.

Evaluation of Instruction

a. Summary of Student Evaluations

Summary of student evaluations is not up to date.
CSE 310, CSE 430, and CSE 434 are required, core undergraduate courses.
<table>
<thead>
<tr>
<th>Course Number</th>
<th>Semester Offered</th>
<th>Response Rate</th>
<th>Evaluation of Course</th>
<th>Evaluation of Instructor</th>
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<tbody>
<tr>
<td>CSE 430</td>
<td>Fall 2002</td>
<td>39/51</td>
<td>3.63</td>
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<td>CSE 591</td>
<td>Fall 2002</td>
<td>17/20</td>
<td>3.94</td>
<td>4.36</td>
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<td>CSE 430</td>
<td>Fall 2003</td>
<td>26/51</td>
<td>3.84</td>
<td>4.15</td>
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<td>CSE 591</td>
<td>Spring 2004</td>
<td>6/8</td>
<td>4.34</td>
<td>4.69</td>
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<td>CSE 430</td>
<td>Fall 2004</td>
<td>26/36</td>
<td>3.93</td>
<td>4.15</td>
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<td>CSE 310</td>
<td>Spring 2005</td>
<td>21/24</td>
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<td>9/15</td>
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<td>CSE 598</td>
<td>Spring 2005</td>
<td>4/4</td>
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<td>9/10</td>
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<td>4.31</td>
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<td>CSE 310</td>
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<td>CSE 434</td>
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<td>20/31</td>
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<td>CSE 430</td>
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<td>CSE 430</td>
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<td>3.95</td>
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<td>Spring 2012</td>
<td>22/31</td>
<td>4.04</td>
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</table>

Average: 4.02 4.20

b. Undergraduate Projects Supervised


7. Shaheer Al Marzougi, NSF Research Experience for Undergraduates (REU), Fall 2006.