# J. Christopher Beck, PhD, LEL

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## Education

**University of Toronto**
PhD, Computer Science, 1999.
MSc, Computer Science, 1994.

**St. Francis Xavier University**
BSc, Computer Science, 1992.

## Employment

**University of Toronto**
**Department of Mechanical & Industrial Engineering**
Professor, 2015 – present.
Associate Chair Research, 2012 – 2015.
Associate Professor, 2009 – 2015.
Assistant Professor, 2004 – 2009.
With cross-appointment to the Department of Computer Science.

**King's College London**
**Department of Informatics**
Visiting Professor, 2017 – 2018.

**Zuse Institute Berlin**
Sabbatical Visitor, 2010 – 2011.

**University College Cork**
**Cork Constraint Computation Center**
Staff Scientist, 2002 – 2004.

**ILOG, SA**
Senior Scientist and Software Engineer, 1999 – 2002.

**Numetrix, Inc**
Software Engineer, 1994 – 1995.

## Publications

129 peer-reviewed papers in journals and conferences.
53 peer-reviewed papers in workshops.
5 conference proceedings edited or co-edited.
Google Scholar Citations: 3849, h-index: 32.
See tidel.mie.utoronto.ca/publications.php.

## Scholarly Addresses

Over 200 national and international presentations since 2000.

## Research Funding

Over CAD$2.5M as PI, co-PI, or collaborator since 2003.

## Awards

**Distinguished Paper Award, 2018**
Fifteenth International Conference on the Integration of Constraint Programming, Artificial Intelligence, and Operations Research for *Intruder Alert! Optimization Models for Solving the Mobile Robot Graph-Clear Problem.*

**Distinguished Student Paper Award, 2016**
Twenty-Second International Conference on the Principles and Practice of Constraint Programming for *A Constraint Programming Approach to Multi-Robot Task Allocation and Scheduling in Retirement Homes.*

**Google Research Award, 2011 – 2012**

**Outstanding Program Committee Member, 2010**
Twenty-Fourth AAAI Conference on Artificial Intelligence.

**Award of Excellence, 2009**
Third International Competition on Knowledge Engineering for Planning and Scheduling for *From Requirements and Analysis to PDDL in itSIMPLE3.0.*

**Early Researcher Award, 2007**
Ontario Ministry of Research and Innovation.

**Rob Milne Memorial Award, 2006**
Best Refereed Application Paper at the Twenty-Sixth International Conference of the British Computer Society's Specialist Group on Artificial Intelligence for *Managing Restaurant Tables Using Constraints.*

**PLANET Prize for Research Excellence, 2001**
European Conference on Planning for *Toward an Understanding of Local Search Cost in Job Shop Scheduling.*

**Centennial Scholarship, 1992 – 1996**
Natural Sciences and Engineering Research Council of Canada.

**Governor-General's Gold Medal, 1992**
St. Francis Xavier University.

## Selected Professional Activities

**Executive Council for the**
**International Conference on Automated Planning and Scheduling**
President, 2014 – 2016.
President-Elect, 2012 – 2014.
Conference Liaison, 2010 – 2012.
Member, 2008 – 2016.

**INFORMS Computing Society Prize Committee**
Chair, 2015.
Member, 2012 – 2015.

**Grant Referee**
Natural Sciences and Engineering Research Council of Canada, 2000 – 2019.
Canada Excellence Research Chair Program, 2018.
Netherlands Organization for Scientific Research, 2006, 2018.
Canada 150 Research Chair Program, 2017.
Israel Science Foundation, 2008, 2009, 2017.
Austrian Science Fund, 2015.
Swiss National Science Foundation, 2014.
German-Israeli Foundation for Scientific Research and Development, 2012.
Microsoft Research PhD Scholarship Program, 2007.
Chilean National Commission for Scientific and Technological Research, 2007.

**External Review Committee**
United Arab Emirates Commission for Academic Accreditation, 2013, 2017.
NSERC Industrial Research Chairs Program, 2016.

**Editorial Roles**
*Mathematical Programming Glossary*, Editorial Board, 2009 – present.
*Journal of Artificial Intelligence Research*, Associate Editor, 2010 – 2016.
*Knowledge Engineering Review*, Editorial Board, 2005 – 2015.
*Constraints*, Letters Editor 2010 – 2013, Editorial Board, 2008 – 2013.
Special Issue Co-editor, **18**(2), 2013.
Special Issue Co-editor, **5**(4), 2000.
*Journal of Scheduling*, Associate Editor, 2005 – 2012.
*Annals of Operations Research*, Special Issue Co-editor, **171**(1), 2009.
*Constraint Programming Letters*, Area Editor, Editorial Board, 2006 – 2008.
*AI Communications*, Special Issue Co-editor, **20**(3), 2007.

**Reviewer**
29 journals, multiple reviews, 2000 – present.

## Selected Conference Organization

**International Conference on Automated Planning and Scheduling**
Program Co-chair, 2008, 2020.
(Senior) Program Committee, 2004 – 2020.

**International Conference on the Integration of Constraint Programming, Artificial Intelligence, and Operations Research**
Program Co-Chair, 2006, 2011.
Program Committee, 2004 – 2019.

**International Conference on the Principles and Practice of Constraint Programming**
Program Chair, 2017.
(Senior) Program Committee, 2007, 2012 – 2018.

**Association for the Advancement of Artificial Intelligence AAAI Conference**
Area Chair, 2019.
(Senior) Program Committee, 2006 – 2008, 2010, 2015, 2019.

**Symposium on Abstraction, Reformulation, and Approximation**
Co-Chair, 2009.
Program Committee, 2005 – 2011.

## Teaching

**Post-Doctoral Fellows**
4 supervised, 4 co-supervised.

**Students**
PhD, 7 supervised, 7 co-supervised.
MASc/MSc, 8 supervised, 9 co-supervised.
MEng, 5 supervised (project).
BASc, 14 supervised (thesis), 17 supervised (internship),
31 supervised (capstone project).

**Courses**
MIE1619, Constraint Programming and Hybrid Optimization, 2019.
MIE1619, Constraint Programming and Local Search, 2006 – 2010, 2012, 2014, 2016.
MIE562, Scheduling, 2005 – 2009, 2011 – 2016, 2018.
APS106, Fundamentals of Computer Programming, 2010, 2012, 2015 – 2017, 2019.
MIE350, Design and Analysis of Information Systems, 2004 – 2008.