

complex and sustainable urban networks

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current position

Assistant Professor, Research Assistant Professor
and **Director** of the **Complex and Sustainable**
Urban Networks (CSUN) Lab

Civil and Materials Engineering
Institute for Environmental Science and Policy
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University of Illinois at Chicago
Chicago, IL, USA

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web presence

- [Faculty Profile](#)
- [Personal website](#)
- [Google Scholar](#)
- [Academia](#)
- [Research Gate](#)
- [LinkedIn](#)
- [Twitter](#)



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01 education & skills

education

Ph.D., University of Toronto (Canada) 2006–10
Civil Engineering
Thesis title: [The Properties and Effects of Metro Network Designs](#)

D.E.S.O., Ecole Centrale of Lyon (France) 2005–06
Industrial Engineering: Innovation, Development
Exchange under Erasmus program

M.Eng., Imperial College London (UK) 2002–06
Mechanical Engineering
1st class honours

languages

French: native
English: fluent
Spanish: conversational

IT skills

Python (including scikit-learn, igraph, numpy, scipy, matplotlib libraries), HTML, JavaScript, XML, C++, MATLAB, LaTeX, ArcGIS, AutoCAD, STATA, EMME/2, Adobe (Photoshop, Illustrator, InDesign, Dreamweaver), GIMP, Labview, Apple, Microsoft Windows, Linux, MS Office (Word, Excel, PowerPoint, Publisher)

02 professional experience

University of Illinois at Chicago **aug 2012 – present**
Civil and Materials Engineering
Institute for Environmental Science and Policy (joint appointment)
Assistant Professor and Research Assistant Professor in Sustainable Infrastructure Systems
Director of the complex and sustainable urban networks (CSUN) Lab

Massachusetts Institute of Technology **aug 2011 – jul 2012**
Singapore-MIT Alliance for Research and Technology
Future of Urban Mobility
Visiting Research Fellow

University of Toronto **nov – dec 2010**
Civil Engineering Department
Post-Doctoral Researcher

University of Toronto **aug – oct 2010**
Cities Centre
Post-Doctoral Researcher

University of Toronto **sep 2006 – jul 2010**
Civil Engineering Department
Research Assistant

University of Toronto **sep 2006 – apr 2010**
Civil Engineering Department
Teaching Assistant

Accenture Paris **apr – jul 2006**
Business Analyst

Imperial College London, **jun – aug 2004**
Mechanical Engineering Department
Research student in Strength of Polymers

03 publications

refereed publications

Ahmad, N., & **Derrible, S.**, "Triple Bottom Line Performance of World Countries using a Network-Based Frequency Approach", under review

Wisetjindawat, W., Kermanshah, A., **Derrible, S.**, & Fujita, M., "Stochastic Modeling of Road System Performance to Multi-Hazard Events: Flash Floods and Earthquakes", under review

Nazari, F., Mohammadian, K., & **Derrible, S.**, "Predicting Activity-Based Energy and Water Consumption: A Neural Network Model", under review

Golshani, N., Shabanpour, R., Mahmoudifard, S., **Derrible, S.**, & Mohammadian, A., "Comparison of artificial neural networks and statistical copula-based joint models", under review

Shabanpour, R., Golshani, N., **Derrible, S.**, Mohammadian, A., & Miralinaghi, M., "A cluster-based joint model of travel mode and departure time choices", under review

Mulrow, J., **Derrible, S.**, Ashton, W., & Chopra, S., "Industrial symbiosis at the facility scale: framework & metrics", under review

Derrible, S., "Complexity in Future Cities: The Rise of Networked Infrastructure", under review

Ahmad, N., **Derrible, S.**, & Cabezas, H., "Measuring Stability, Order, and Regime Shifts in Transit Systems Using Concepts of Fisher Information", under review

Wang, X., Koc, Y., **Derrible, S.**, Ahmad, N., Pino, W., & Kooij, R., "Multi-Criteria Robustness Analysis of Metro Networks", under review

Kermanshah, A., & **Derrible, S.**, "Robustness of Road Systems to Extreme Flooding: Using Elements of GIS, Travel Demand, and Network Science", under review

Ahmad, N., **Derrible, S.**, Eason, T., & Cabezas, H., "[Using Fisher Information in Big Data](#)", available on arXiv while under review

Peiravian, F., & **Derrible, S.**, "[Manifestation of Coupled Geometric Complexity in Urban Road Networks under Mono-Centric Assumption](#)", available on arXiv while under review

Peiravian, F., & **Derrible, S.**, "[Multi-Dimensional Geometric Complexity in Urban Transportation Systems](#)", available on arXiv while under review

Amini, B., Peiravian, F., Mojarradi, M. & **Derrible, S.**, 2016 "[Comparative Traffic Performance Analysis of Urban Transportation Network Structures](#)", *Transportation Research Record*, available on arXiv while in press

Derrible, S., 2016 "[Urban Infrastructure is not a Tree: Integrating and Decentralizing Urban Infrastructure Systems](#)", *Environment and Planning B*, published online before print

Karduni, A., Kermanshah, A., & **Derrible, S.**, 2016 "[A protocol to convert spatial polyline data to network formats and applications to world urban road networks](#)", *Scientific Data*, 3:160046

Kermanshah, A., & **Derrible, S.**, 2016 "[A Geographical and Multi-Criteria Vulnerability Assessment of Transportation Networks Against Extreme Earthquakes](#)", *Reliability Engineering & System Safety*, 153:39-49

Mohareb, E., **Derrible, S.**, & Peiravian, F., 2016 "[Intersections of Jane Jacobs' Conditions for Diversity and Low-Carbon Urban Systems: Global Look at Four Cities](#)", *Journal of Urban Planning and Development*, 142(2):05015004

Derrible, S., & Ahmad, N., 2015 "[Network-Based and Binless Frequency Analyses](#)", *PLoS ONE*, 10(11): e0142108

Derrible, S., & Reeder, M., 2015 "[The Cost of Over-Cooling Commercial Buildings in the United States](#)", *Energy and Buildings*, 108:304-306

Derrible, S., 2015, "[Inside the mind of an engineer](#)", *Science*, 349(6247):484-484

Derrible, S., 2015 "[Smart Transport Networks: Market Structure, Sustainability and Decision Making](#), T. Vanoutrive, A. Verhetsel (Eds.)", *Journal of Transport Geography*, 44(0):91

Derrible, S., 2015, "[Seeing the forest for the trees](#)", *Science*, 347(6229):1426-1426

Dijkema, G., Xu, M., **Derrible, S.**, & Lifset, R., 2015, "[Complexity in Industrial Ecology: Models, Analysis, and Actions](#)", *Journal of Industrial Ecology*, 19(2):189-194

Ahmad, N. & **Derrible, S.**, 2015 "[Evolution of Water Consumption in the USA: A Network Approach](#)", *Journal of Industrial Ecology*, 19(2):321-330

Derrible, S., 2015 "[The New Science of Cities. Michael Batty](#)", *Journal of Industrial Ecology*, 19(2):333-334

Cottrill, C., & **Derrible, S.**, 2015 "[Leveraging Big Data for the Development of Transport Sustainability Indicators](#)", *Journal of Urban Technology*, 22(1):45-64

Peiravian, F. & **Derrible, S.**, Ijaz, F., 2014 "[Development and Application of the Pedestrian Environment Index \(PEI\)](#)", *Journal of Transport Geography*, 39:73-84

Good, M., & **Derrible, S.**, 2013 "[Book Review: Triumph of the City, Edward Glaeser](#)", *Journal of Transport and Land Use*, 6(3):87-89

Derrible, S., 2012 "[Reviewing and Assessing the Toronto Metro System](#)", *Canadian Journal of Civil Engineering*, 39(2):154-162

Derrible, S., 2012 "[Network Centrality of Metro Systems](#)", *PLoS ONE*, 7(7):e40575

Derrible, S. & Kennedy, C., 2011 "[Applications of Graph Theory and Network Science to Transit Network Design](#)", *Transport Reviews: A*

Transnational Transdisciplinary Journal, 31(4):495-519

Derrible, S., Saneinejad, S., Sugar, L. & Kennedy, C., 2010, "[Macroscopic greenhouse-gases emissions model of urban transportation for municipalities](#)", *Transportation Research Record*, 2191:174-181

Derrible, S. & Kennedy, C., 2010, "[Evaluating, Comparing, and Improving Metro Networks: an application to the Toronto proposed plans](#)", *Transportation Research Record*, 2146:43-51

Derrible, S. & Kennedy, C., 2010 "[The Complexity and Robustness of Metro Networks](#)", *Physica A: Statistical Mechanics and its Applications*, 389(17):3678-3691

Derrible, S. & Kennedy, C., 2010 "[Characterizing Metro Networks: State, Form, and Structure](#)", *Transportation*, 37(2):275-297

Derrible, S. & Kennedy, C., 2009 "[Network Analysis of Subway Systems in the World using Updated Graph Theory](#)", *Transportation Research Record*, 2112:17-25

books and book chapters

Mohareb, E., Bristow, D., & **Derrible, S.**, 2016 "Greenhouse Gas Mitigation in Developed World Cities", in [Handbook of Urbanization and Global Environmental Change](#). Edited by Seto, K., Solecki, W., & Griffith, C., pp.377-405, London: Routledge.

Derrible, S., 2013 "[Metros as Biological Systems: Complexity in Small Real-life Networks](#)", in [Advances in Network Complexity](#). Edited by Dehmer, M., Mowshowitz, A. & Emmert-Streib, F., pp.259-285, Wiley-VCH Verlag GmbH & Co. KGaA

Derrible, S., 2011 "[Metro Network Designs: Characteristics, Complexity, and impact on Ridership](#)", *Lambert Publishing*, Saarbrücken, Germany, ISBN 978-3-8433-5362-5

Derrible, S., Saneinejad, S. & Kennedy, C., 2009 "Chapter 4: Transportation and Land-Use", in [Getting to Carbon Neutral: A Guide for Canadian Municipalities](#). Edited by Kennedy, C., produced for the Toronto and Region Conservation Authority

Kennedy, C., Bristow, D., **Derrible, S.**, Mohareb, E., Saneinejad, S., Stupka, R., Sugar, L. & Zizzo, R., 2009 "Chapter 7: Comparison of Strategies", in [Getting to Carbon Neutral: A Guide for Canadian Municipalities](#). Edited by Kennedy, C., produced for the Toronto and Region Conservation Authority

Kennedy, C., Bristow, D., **Derrible, S.**, Mohareb, E., Saneinejad, S., Stupka, R., Sugar, L., Zizzo, R., & McIntyre, B., 2010 "[Getting to Carbon Neutral: A Review of Best Practices in Infrastructure Strategy](#)", in [Energy efficient cities: Assessment tools and benchmarking practices](#). Edited by Ranjan K. Bose, pp.165-184. Washington, DC: World Bank

conference proceedings

Peiravian, F., & **Derrible, S.**, 2016 "Exploration of Geometric Complexity in Urban Road Networks", *TRB 95th Annual Meeting*, Transportation Research Board, January 10-14, Washington DC, United States

Amini, B., Peiravian, F., Mojarradi, M. & **Derrible, S.**, 2016 "Comparative Traffic Performance Analysis of Urban Transportation Network Structures", *TRB 95th Annual Meeting*, Transportation Research Board, January 10-14, Washington DC, United States

Wang, X., Koç, Y., **Derrible, S.**, Ahmad, N. & Kooij, R.E., 2015 "Quantifying the Robustness of Metro Networks", *6th INSTR - The Value of Reliability, Robustness and Resilience*, International Symposium on Transportation Network Reliability, August 2-3, Nara, Japan

Kermanshah, A., & **Derrible, S.**, 2015 "A GIS Method For Measuring Road System Resilience to Extreme Events", *6th INSTR - The Value of Reliability, Robustness and Resilience*, International Symposium on Transportation Network Reliability, August 2-3, Nara, Japan

Peiravian, F., de Lapparent, M. & **Derrible, S.**, 2015 "Transportation Networks, People, and Buildings: Characterization of Urban System Components", *TRB 94th Annual Meeting*, Transportation Research Board, January 11-15, Washington DC, United States

Peiravian F., Kermanshah A., **Derrible, S.**, & Andris, C., 2014, "Spatial Data Analysis of Complex Urban Systems", *2014 IEEE International Conference on Big Data*, October 27-

30, Washington DC, United States

Kermanshah, A., Karduni, A., Peiravian, F., & **Derrible, S.**, 2014 "Impact Analysis of Extreme Events on Flows in Spatial Networks", *2014 IEEE International Conference on Big Data*, October 27-30, Washington DC, United States

Peiravian, F. & **Derrible, S.**, 2014 "Complete Streets Designs: A Comparative Emission Impact Analysis", *TRB 93rd Annual Meeting*, Transportation Research Board, January 12-16, Washington DC, United States

Cottrill, C. & **Derrible, S.**, 2013 "Leveraging Big Data for the Development of Transport Sustainability Indicators", *World Conference on Transport Research*, July 15-18, Rio de Janeiro, Brazil

Derrible, S. & Cottrill, C., 2013 "How new Technologies can contribute to measuring Sustainable Mobility", *TRB 92nd Annual Meeting*, Transportation Research Board, January 13-17, Washington DC, United States

Derrible, S., 2012 "Using Network Centrality to Determine Key Transfer Stations in Public Transportation Systems", *TRB 91st Annual Meeting*, Transportation Research Board, January 22-26, Washington DC, United States

Derrible, S., 2011 "The Toronto Metro: History, Demand, and Performance", *TRB 90th Annual Meeting*, Transportation Research Board, January 23-27, Washington DC, United States

Derrible, S. & Farooq, B., 2010 "The Four Outcomes of Transit and Land-Use", *CTRF 45th Annual Conference*, Canadian Transportation Research Forum, May 30 – June 02, Toronto, ON, Canada

Derrible, S. & Kennedy, C., 2010 "Evaluating, Comparing, and Improving Metro Networks: an application to the Toronto plans", *TRB 89th Annual Meeting*, Transportation Research Board, January 10-14, Washington DC, United States

Derrible, S., Saneinejad, S., Sugar, L. & Kennedy, C., 2010 "Macroscopic Greenhouse-gases emissions model of urban transportation for municipalities", *TRB 89th Annual Meeting*, Transportation Research Board, January 10-14, Washington DC, United States

Derrible, S. & Kennedy, C., 2009 "Comparing the GTA Transit Plan to major transit networks in the World using Graph Theory concepts", *TRANSLOG 1st Annual International Conference*, June 17-18, Hamilton, ON, Canada

Derrible, S. & Kennedy, C., 2009 "A Network Analysis of Subway Systems in the World using Updated Graph Theory", *TRB 88th Annual Meeting*, Transportation Research Board, January 11-15, Washington DC, United States

Derrible, S., Kennedy, C., Miller, E. & Roorda, M., 2008 "Light Rail Transit in Toronto: Underground or Above-ground". Proceedings, Annual Conference - Canadian Society for Civil Engineering 4:2649-2658

conference abstracts & technical reports

Mulrow, J., **Derrible, S.**, Ashton, W., & Chopra, S., "Determining the Requirements for Building-Scale Industrial Symbiosis", *ISSST 2016*, International Symposium on Sustainable Systems and Technology, May 16-18, Phoenix, AZ, United States

Ahmad, N., & **Derrible, S.**, 2016 "A Network-Based Approach to Track Social, Economic, and Environmental Trends in World Countries", *ISSST 2016*, International Symposium on Sustainable Systems and Technology, May 16-18, Phoenix, AZ, United States

Ahmad, N., & **Derrible, S.**, 2015 "Analyzing Multivariate Time Series Data using a Network-Based Approach", *Network Frontier Workshop 2015*, December 6-7, Evanston, IL, United States

Kermanshah, A, Ahmad, N., Berkelhammer, M., & **Derrible, S.**, 2015 "Resilience in Complex Systems: A GIS Analysis of Extreme Events Impact on Infrastructure Networks", *8th International Conference in Industrial Ecology*, International Society for Industrial Ecology, July 7-10, Surrey, United Kingdom

Reeder, M., & **Derrible, S.**, 2015 "Estimating Electricity Waste in Commercial Buildings Due to Over-Cooling in the US", *8th International Conference in Industrial Ecology*, International Society for Industrial Ecology, July 7-10, Surrey, United Kingdom

Derrible, S., Ahmad, N., & Theis, T., 2015 "Capturing the Sustainability of Urban Systems using Fisher Information: Application to Public Transport", *8th International Conference in Industrial Ecology*, International Society for Industrial Ecology, July 7-10, Surrey, United Kingdom

Ahmad, N., **Derrible, S.**, & Kermanshah, A., 2015 "Towards Sustainable Development: A Network Approach", *8th International Conference in Industrial Ecology*, International Society for Industrial Ecology, July 7-10, Surrey, United Kingdom

Kermanshah, A., & **Derrible, S.**, 2015 "Using Climate Models to Assess the Resilience of Roads to Extreme Events", *ISSST 2015*, International Symposium on Sustainable Systems and Technology, May 18-20, Dearborn, MI, United States

Derrible, S., Ahmad, N., & Theis, T., 2015 "Using Fisher Information to Measure the Sustainability of Urban Systems", *ISSST 2015*, International Symposium on Sustainable Systems and Technology, May 18-20, Dearborn, MI, United States

Reeder, M., & **Derrible, S.**, 2015 "Estimating Electricity Waste in Commercial Buildings due to Over-Cooling in the United States", *UIC Student Research Forum*, April 2, Chicago, IL, United States

Peiravian, F., & **Derrible, S.**, Peiravian, F., 2014 "Empowering Students with Knowledge and Knowhow on Sustainability", *AASHE Annual*

Conference, Association for the Advancement of Sustainability in Higher Education (AASHE), October 26-29, Portland, OR, United States

Ahmad, N., & **Derrible, S.**, 2014 "Evolution of Water Consumption in the USA: A Network Approach", *Illinois Water 2014*, October 14-15, Urbana, IL, United States

Kermanshah, A., Peiravian, F., Ahmad, N., & **Derrible, S.**, 2014 "Investigating Transportation Network Resilience to Extreme Events", *NetSci 2014 International School and Conference on Network Science*, June 2-6, Berkeley, CA, United States

Ahmad, N., Kermanshah, A., Peiravian, F., & **Derrible, S.**, 2014 "Network Science: A Potential Tool for Analyzing Water Consumption in the USA", *NetSci 2014 International School and Conference on Network Science*, June 2-6, Berkeley, CA, United States

Peiravian, F., Ahmad, N., Kermanshah, A. & **Derrible, S.**, 2014 "Questioning Box-Counting Method as a Tool for Fractal Characterization of Physical Networks", *NetSci 2014 International School and Conference on Network Science*, June 2-6, Berkeley, CA, United States

Peiravian, F., & **Derrible, S.**, 2013 "Adopting a Fractal Approach to study the Complexity of Urban Systems", *7th International Conference in Industrial Ecology*, International Society for Industrial Ecology, June 25-28, Ulsan, South Korea

Derrible, S. & Mohareb, E., 2013 "Can Jane Jacobs' principles be applied in the developing world for successful and green urban economies", *7th International Conference in Industrial Ecology*, International Society for Industrial Ecology, June 25-28, Ulsan, South Korea

Peiravian, F., & **Derrible, S.**, 2013 "Spatial analysis of urban systems: A fractal approach", *Spatial Statistics 2013*, June 4-7, Columbus, OH, United States

Derrible, S., Diao, M., Zegras, C., Ferreira, J., Ben-Akiva, M., & Xiang, Y., 2012 "Real Estate Modeling in Singapore", *Future Urban Mobility Symposium 2012*, National University of Singapore, January 11-12, Singapore

Derrible, S., 2010 "Greenhouse-Gas Emissions of Commercial Vehicles in Municipalities: adding Freight Transportation to MUNTAG", report to the Toronto and Region Conservation Authority, Toronto, ON, Canada

Kennedy, C., Bristow, D., **Derrible, S.**, Mohareb, E., Rulff, D., Saneinejad, S., Stupka, R., Sugar, L., Zizzo, R. & McIntyre, B., 2010 "Getting to carbon neutral: a guide for cities". *International Conference on Urbanization and Global Environmental Change*, Urbanization and Global Environmental Change (UGEC) - an IHDP Core Project, October 15-17, Tempe, AZ, United States

Sugar L., Kennedy C., Bristow D., **Derrible S.**, Mohareb E., Saneinejad S., Stupka R., Sugar L., Zizzo R., & McIntyre B., 2010 "Getting to

Carbon Neutral and Improving Climate Change Resilience in Cities". *First World Congress on Cities and Adaptation to Climate Change*, May 28-30, Bonn, Germany

Derrible, S. & Kennedy, C., 2009 "How Complex are Subway Networks", *5th International Conference in Industrial Ecology*, International Society for Industrial Ecology, June 21-24, Lisbon, Portugal

Derrible, S. & Kennedy, C., 2009 "How does network size affect the energy use of subway systems", *5th International Conference in Industrial Ecology*, International Society for Industrial Ecology, June 21-24, Lisbon, Portugal

invited talks & others

Derrible, S., 2016, "Leveraging Big Data and Data Mining to Rethink Traditional Sustainability Metrics", *International Congress on Sustainability Science & Engineering (ICOSSE)*, October 25, Suzhou, Jiangsu, China

Derrible, S., 2016, "Critically Interdependent by Design: Re-Thinking Infrastructure Planning", *Modern Solutions Power Systems Conference (MSPSC)*, June 9, Chicago, IL, United States

Derrible, S., 2016, "Linking urban infrastructure systems: Future smart cities", *Workshop on Computational Challenges in Cooperative Intelligent Urban Transport*, Schloss Dagstuhl, March 2, Wadern, Germany

Derrible, S., 2016 "Re-Engineering Cities: The Role of Complexity Science", *Wednesdays @ NICO Seminar*, Northwestern Institute on Complex Systems, Northwestern University, Evanston, IL, United States

Derrible, S., 2015 "Complexity in Future Cities: The Rise of Networked Infrastructure", *Future Cities Workshop*, University of Seoul, November 20, Seoul, South Korea

Derrible, S., 2015 "Complexity as a Lever of Creativity for Sustainable Infrastructure Design", *Research Design in Urban Science Course*, University of Washington, October 20, Seattle, WA, United States

Derrible, S., 2015 "Resilience is not a Tree: Can Christopher Alexander help us design more resilient systems?", *22nd ISSST*, International Symposium on Sustainable Systems and Technology, May 19, Dearborn, MI, United States

Derrible, S., 2015, "Using Complexity Theory to Gain New Information and Help Design More Sustainable and Resilient Urban Systems", *Lectures in Civil and Environmental Engineering*, Northwestern University, March 13, Evanston, IL, United States

Derrible, S., 2014, "Difference between "Sustainability" and "Resilience"?", *Symposium on Sustainable Engineering*, University of Illinois at Chicago, December 2, Chicago, IL, United States

Derrible, S., 2014 "Water and Sustainability", *Urban Systems and Networks Satellite, NetSci*

2014 *International School and Conference on Network Science*, June 2, Berkeley, California

Derrible, S., 2014 "Water, Networks, Complexity, and Cities: Extracting New Information from Old Systems", *CME Environmental Seminar*, University of Illinois at Chicago, April 17, Chicago, IL, United States

Zenil, H. & **Derrible, S.**, 2014 "World Metro Networks", Wolfram Demonstrations Project, <http://demonstrations.wolfram.com/WorldMetroNetworks/>, Accessed January 29, 2014

Derrible, S., 2014 "Harvesting Complexity to Build Smarter Cities", *Northwestern University Transportation Center Seminar*, Northwestern University, January 9, Evanston, IL, United States

Derrible, S., 2013 "Fractals, power laws, and networks: how complexity can help better plan cities", *Department of Urban Planning and Policy's Friday Forums*, University of Illinois at Chicago, November 15, Chicago, IL, United States

Derrible, S., 2013 "What metros have to teach us, from complexity to centrality", *Networking Transportation Networkers*, Coventry University, September 26, Coventry, United Kingdom

Derrible, S., 2013 "Urban Planning, Resilience and Sustainability from the perspective of Complex Systems", *Metropolitan Planning Council*, July 15, Chicago, IL, United States

Derrible, S., 2013 "Resilience Planning: Concepts and Applications to Urban Issues",

Metropolitan Planning Council, May 15, Chicago, IL, United States

Derrible, S., 2013 "Redesigning Urban Infrastructure Networks for a Smarter Future", *Smart Cities Seminar*, University of California Berkeley, February 1, Berkeley, CA, United States

Derrible, S., 2012 "Rethinking Transit Planning: Lessons from Complex Networks", *CTS IGERT Seminar Series*, University of Illinois at Chicago, October 10, Chicago, IL, United States

Derrible, S., 2012 "Redesigning Urban Systems: A Network Approach", *Urban Engineering Seminar*, Imperial College London, March 30, London, United Kingdom

Derrible, S., 2012 "Adopting a Complex Network approach to better understand and design Urban Infrastructure", *Sustainable Infrastructure Systems Seminar*, University of Illinois at Chicago, March 16, Chicago, IL, United States

Derrible, S., 2012 "Transit systems: new perspectives and novel methods, a network topological approach", *MIT Transit Research Group Meeting*, Massachusetts Institute of Technology, February 10, Boston, MA., United States

Derrible, S., 2012 "Overview of the Singaporean Transit System", *Rail Transit Systems Committee Meeting, TRB 91st Annual Meeting*, Transportation Research Board, January 23, Washington DC, United States

Derrible, S., 2011 "Transit Network Designs: Thoughts for the Future of Urban Mobility", *Future of Urban Mobility Seminar*, Singapore-MIT Alliance for Research and Technology, September 6, Singapore

Derrible, S., 2011 "Research Activities on Infrastructure Networks: Past, Present, and Future", *Infrastructure Systems Seminar*, Georgia Institute of Technology, April 18, Atlanta, GA, United States

Derrible, S., 2011 "Urban Infrastructure Networks: past research and future avenues", *Construction Engineering and Management Seminar*, Columbia University, March 24, New York City, NY, United States

Derrible, S., 2010 "Mobility Cultures in Paris and Toronto", *Mobility Cultures in Megacities Kick-off Workshop*, Institute for Mobility Research, November 17-19, Munich, Germany

Derrible, S., 2010 "Properties and Effects of Metro Network Design", *Sustainable Infrastructure Group Research Discussion Day*, University of Toronto, May 27, Toronto, Ontario, Canada

Derrible, S., Saneinejad, S., Sugar, L. & Kennedy, C., 2010 "Calculating transportation GHG emissions for municipalities", *Transportation Systems (ITS) Lab Seminar Series*, University of Toronto, March 5, Toronto, Ontario, Canada

Derrible, S., 2009 "Unraveling the mysteries of the complexity of metro networks",

Transportation Systems (ITS) Lab Seminar Series, University of Toronto, November 6, Toronto, Ontario, Canada

Derrible, S. & Kennedy, C., 2009 "Energy Use of Subway Networks in the Sustainability era", *CORS-INFORMS 2009 International Meeting*, Canadian Operational Research Society, June 14-17, Toronto, Ontario, Canada

Derrible, S., 2009 "Public Transit Network Characteristics and Design: results and lessons learnt", *First Annual Joint ITE section Student Presentation Competition Job Fair*, Canadian Institute of Transportation Engineers Toronto, Hamilton, Southwest Ontario, University of Waterloo, March 4, Waterloo, Ontario, Canada

Derrible, S., 2009 "Using Graph Theory to Analyse Subway Networks: What can we learn?", *Transportation Systems (ITS) Lab Seminar Series*, University of Toronto, February 27, Toronto, Ontario, Canada

press

CME Alumni Newsletter - Spring 2016, 2016, "[Derrible Researching the Development of Sustainable Communities](#)" by David Staudacher (April 25)

SPM 1ère, 2016, "[Journal: Edition du Matin](#)" by Patrick Caillet (April 21)

UIC News, 2016, "[Engineering faculty members receive NSF CAREER Awards](#)" by Bill Burton (March 29)

UIC News, 2015, "[Re-thinking design to build sustainable cities](#)" by Gary Wisby (June 16)

SPM 1ère, 2013 "[Ça vous regarde est à Chicago](#)" by Claire Arrossaména (November 28)

GlobalEd 2, 2013 [Podcast on "Infrastructure, Sustainability, and Water Management"](#) by Jeremy Riel (October 17)

Metropolitan Planning Council, 2013 "[Tough Stuff: Resilient Infrastructure in a Changing World](#)" by MPC (May 15). Find video [here](#)

Institute for Environmental Science and Policy, 2012 [Fall 2012 Newsletter](#) by IESP

txchnologist, 2011 "[The Lonely Podcar: Who Will Take a Chance on Personal Transit?](#)" by Christopher Mims

planningpool, 2010 "[CTRE 2010: Linking land use and transit](#)" by Christine Allum

04 editorial and reviewing activities

editor

- Sustainable and Resilient Infrastructure (Taylor and Francis) – Editorial Board Member (2015-present)
- Journal of Urban Planning and Development (ASCE) – Editorial Board Member (2015-present)
- Journal of Infrastructure Systems (ASCE) – Guest Editor on Special Issue (2016): “Infrastructure Resilience to Climate Change”
- Journal of Industrial Ecology (Wiley) – Guest Editor on Special Issue (2015): "Advances in Complex Adaptive Systems and Industrial Ecology"

proposal and project reviewer

- National Science Foundation (18)
- American Association for the Advancement of Science (2)
- National Cooperative Highway Research Program (1)

academic reviewer

- Journal of the Royal Society Interface (2)
- Journal of Industrial Ecology (3)
- Royal Society Open Science (1)
- Climatic Change (1)
- Urban Studies (2)
- Environment and Planning B (3)
- PLoS ONE (2)
- Physica A: Journal of Statistical Mechanics and its Applications (6)
- International Journal of Sustainable Transportation (2)
- Transportation Research Part A: Policy and Practice (1)
- Transportation Research Part D: Transport and Environment (2)
- Transportation Research Part E: Logistics and Transportation Review (1)
- Journal of Transport Geography (8)
- Journal of Urban Planning and Development (12)
- International Journal of Urban Sciences (2)
- Networks and Spatial Economics (3)
- Buildings (1)
- Transport Policy (2)

- Transport Reviews (2)
- The Professional Geographer (1)
- Structure and Infrastructure Engineering (1)
- Environmental Sciences (1)
- Canadian Transportation Research Forum (1)
- Transportation Science (1)
- Transportation (1)
- Journal of Transport and Land-Use (3)
- Journal of Transportation Engineering (2)
- Transportation Research Board Annual Meeting (47)
- International Society for Industrial Ecology Biennale Conference (8)
- International Symposium on Transportation Network Reliability (3)
- Transactions on Internet Technology (1)
- Transportmetrica B (1)
- SpringerPlus (1)

05 research projects

university of illinois at chicago

Scaling Laws in Household Energy and Resource Consumption

aug 2016 – pres

Lead PI: Sybil Derrible

Objective: Identify and measure the presence of scaling laws in how household energy and resources are being consumed.

Impact of Climate on Building Energy Consumption

jan 2016 – pres

Lead PI: Sybil Derrible

Objective: Model the impact of climate on how much energy is used in buildings varying in size, heating technology, and insulation.

Next Generation Land Use Modeling Platform

aug 2015 – pres

Lead PI: Sybil Derrible

Objective: Develop a GIS-based, integrated, and flexible land-use modeling platform using elements of machine learning.

Urban Infrastructure is not a Tree: Integrating and Decentralizing Urban Infrastructure Networks

aug 2015 – may 2016

Lead PI: Sybil Derrible

Objective: Adapt Christopher Alexander's *A City is not a Tree* concept to urban infrastructure and determine how urban infrastructure networks

can be better integrated and decentralized for smarter cities.

GIS to Network Tool Development

jan 2015 – aug 2016

Lead PI: Sybil Derrible

Objective: Develop an ArcGIS, python, and QGIS tool to convert any GIS polyline feature into a network format.

Facility-Scale Industrial Symbiosis

jan 2015 – may 2016

Lead PI: Sybil Derrible

Objective: Define a novel approach to co-locating small production businesses within a single facility, based on established industrial symbiosis and circular economy principles.

Tracking Resource Consumption Trends using Network Theory

aug 2014 – pres

Lead PI: Sybil Derrible

Objective: Create, develop and apply a new fundamental network theoretical methodology to track trends in resource consumption in the world.

Estimating The Cost of Over-Cooling Commercial Buildings in the United States

aug 2014 – aug 2015

Lead PI: Sybil Derrible

Objective: Compare building electricity use data with simulated data (using DOE's eQuest) to estimate the energy and monetary cost of over-cooling commercial buildings.

Measuring the Resilience of Urban Transportation Networks to Extreme Events

aug 2013 – pres

Lead PI: Sybil Derrible

Objective: Simulate and measure the impact of extreme events on urban transportation systems by using climate model outputs and concepts of networks science.

Water Consumption Networks in the United States

aug 2013 – jul 2014

Lead PI: Sybil Derrible

Objective: Use a network science methodology to study how water consumption has evolved in the United States.

Geometric Complexity of Urban Road Networks

aug 2012 – dec 2014

Lead PI: Sybil Derrible

Objective: Develop novel methodologies to study and characterize the complex geometry of urban road networks, which can in turn lead to a better understanding of their encompassing urban systems.

singapore-mit alliance for research and technology

SimMobility: Long-Term and Performance Assessment

aug 2011 – jul 2012

Lead PI: P. Christopher Zegers

Objective: Develop state-of-the-art integrated transportation and land-use platform, using advanced discrete choice behavioral models. Enable more meaningful evaluation of alternative sustainability mobility systems for the future of urban mobility.

university of toronto

**Greenhouse-Gas Urban Freight
Transportation Model nov – dec 2010**

Lead PI: Christopher Kennedy

Objective: Develop estimation guidelines to evaluate the municipal greenhouse-gas emissions related to the transportation of freight. Work to be included in the *Carbon Neutral City Planner* software.

**Waterfront Toronto Climate Positive Tool
Development aug – oct 2010**

Lead PI: Eric Miller

Objective: Assist in the development of the Climate Positive (CP) Tool, in particular, the development of a Toronto-specific model to compute transportation-related inputs to the tool that are sensitive to Waterfront Toronto neighborhood design (dwelling typology, street layout, etc.). Review of the CP Tool and strategic analysis of application for lower density lands.

**Getting to Carbon Neutral: A Guide to
Canadian Municipalities**

sep 2008 – jan 2010

Lead PI: Christopher Kennedy

Objective: Synthesize current knowledge of sustainable urban design, and present it in a way that can help Canadian municipalities to become carbon neutral. The definition of carbon neutrality in this document implies direct / indirect municipal emissions minus sequestered carbon and offsets sum to zero.

Urban and Regional Macro-Economics

sep 2006 – sep 2008

Lead PI: Christopher Kennedy

Objective: Develop macro-economic measures to compare worldwide cities, investigating the role of savings, capital formation and imports/exports.

06 grants, scholarships, fellowships, and awards

grants

university of illinois at chicago

CyberPhysical Systems: Synergy: Collaborative Research: Mapping and Querying Underground Infrastructure Systems 2016
Co-PI \$420,000
Sponsor: National Science Foundation (NSF)

Intelligent Welding: Real Time Monitoring, Diagnosis, Decision and Control using Multi-sensor and Machine Learning 2016
Co-PI \$403,441
Sponsor: UI Labs

CAREER: Understanding the Fundamental Principles Driving Household Energy and Resource Consumption for Smart, Sustainable, and Resilient Communities 2016
Sole PI \$500,000
Sponsor: National Science Foundation (NSF)

Transportation Systems Modeling for Detroit 2015
Sole PI \$40,907
Sponsor: Argonne National Laboratory

CyberSEES: Type 2: Feasibility of a Data Integration Framework for Urban Metabolism 2013
Co-PI \$616,000
Sponsor: National Science Foundation (NSF)

Developing a new GIS tool to calculate the Topological and Fractal Dimensions of Cities 2013
Sole PI \$9,935
Sponsor: College of Engineering Annual Fund

Assessing Sustainable Freight Policies Using Microsimulation Approach 2012
Co-PI \$78,998
Sponsor: National Center for Freight & Infrastructure Research (CFIRE)

university of toronto

Greenhouse-Gas Emissions of Commercial Vehicles in Municipalities: adding Freight Transportation to MUNTAG 2010
Co-PI
Sponsor: Toronto and Region Conservation Authority

Climate Positive Tool Development 2010
Co-PI
Sponsor: Clinton Climate Initiative and Waterfront Toronto

Getting to Carbon Neutral 2008-10
Co-PI
Sponsor: Toronto and Region Conservation Authority

fellowships, scholarships and awards

COE Teaching Award 2014
Source: University of Illinois at Chicago
Based on teaching evaluations

COE Advising Award 2014
Source: University of Illinois at Chicago
Based on advising evaluations

Natural Sciences and Engineering Research Council of Canada 2011
Post-Doctoral Fellowship
Funding for two years – national competition

CN Railway Scholarship 2009
Canadian Transportation Research Forum
Six scholarships per year – national competition

MMM Group Ltd. Scholarship 2009
Transportation Association of Canada
Eighteen scholarships per year – national competition

ISIE Conference Student Scholarship 2009
International Society for Industrial Ecology
For the 2009 ISIE conference in Lisbon, Portugal

ITE Student Presentation Competition 2009
ITE chapters of Toronto, Hamilton and Southwest Ontario
Silver award

Open Fellowship 2006–2010
University of Toronto
Renewed annually based on maintaining a GPA of at least A

Design, Make and Test Best Project-of-the-Year Award **2005**

Imperial College London

This is a one-year long project mandatory to all third-year students

Open Scholarship **2001-2010**

Conseil Territorial of St Pierre and Miquelon

Renewed annually based on success and recommendation

07 advising

doctoral advising

Mulrow, John **may 2016 – present**
Ph.D. Candidate
Civil and Materials Engineering
University of Illinois at Chicago
Topic: Redefining Urban Food Systems

Lee, Dongwoo **aug 2015 – present**
Ph.D. Candidate
Civil and Materials Engineering
University of Illinois at Chicago
Topic: Complexity in Household Urban Energy Consumption

Ahmad, Sk Nasir **aug 2014 – present**
Ph.D. Candidate
Civil and Materials Engineering
University of Illinois at Chicago
Topic: Resource Consumption Networks

Kermanshah, Amir **aug 2013 – present**
Ph.D. Candidate
Civil and Materials Engineering
University of Illinois at Chicago
Topic: Urban Infrastructure Resilience

Peiravian, Farid **sep 2012 – dec 2014**
Ph.D. Candidate
Civil and Materials Engineering
University of Illinois at Chicago
Topic: Urban Systems as Fractals

master advising

Eva Chancé **apr 2016 – present**
M.S. Intern at INRA (France)
Civil and Materials Engineering
University of Illinois at Chicago
Topic: Facility-Scale Urban Metabolism

Mulrow, John **aug 2014 – may 2016**
M.S. Candidate
Civil and Materials Engineering
University of Illinois at Chicago
Topic: Building Scale Industrial Symbiosis

Ahmad, Sk Nasir **aug 2013 – aug 2014**
M.S. Candidate
Civil and Materials Engineering
University of Illinois at Chicago
Topic: Water Systems as Complex Networks

Bulusu, SrimaniTejaswini **sep 2012 – may 2013**
M.S. Candidate
Civil and Materials Engineering
University of Illinois at Chicago
Topic: Carbon Footprint

Xiang, Yunke **oct 2011 – jul 2012**
Master of City Planning candidate
Department of Urban Studies and Planning
Massachusetts Institute of Technology
Topic: Real Estate Modeling in Singapore

undergraduate advising

Julia Norberto **may 2016 – present**
Exchange Research Fellow

Brazilian Scientific Mobility Program
Civil and Materials Engineering
University of Illinois at Chicago
Topic: Facility-Scale Urban Metabolism

Patricia Santos **may 2016 – present**
Exchange Research Fellow
Brazilian Scientific Mobility Program
Civil and Materials Engineering
University of Illinois at Chicago
Topic: Climate and Building Energy Use

Rodrigo Marinho **may 2016 – present**
Exchange Research Fellow
Brazilian Scientific Mobility Program
Civil and Materials Engineering
University of Illinois at Chicago
Topic: Python and QGIS Tool Development

Felipe Alves **may 2016 – present**
Exchange Research Fellow
Brazilian Scientific Mobility Program
Civil and Materials Engineering
University of Illinois at Chicago
Topic: Network Properties of Urban Roads

David Klawitter **jan 2016 – present**
Research Affiliate
Civil and Materials Engineering
University of Illinois at Chicago
Topic: Climate and Water Consumption

Peter Cairo **jan 2016 – present**
Undergraduate Research Student
Civil and Materials Engineering
University of Illinois at Chicago
Topic: US Water Consumption

Saulius Imsha **jan 2016 – present**
Undergraduate Research Student
Civil and Materials Engineering
University of Illinois at Chicago
Topic: Building Energy Use

Daniel Kessler **jan 2015 – may 2016**
Undergraduate Research Student
Civil and Materials Engineering
University of Illinois at Chicago
Topic: Bipartite Representation of Infrastructure Networks

Paloma Morais de Souza **aug 2015 – may 2016**
Exchange Research Fellow
Brazilian Scientific Mobility Program
Civil and Materials Engineering
University of Illinois at Chicago
Topic: UIC Infrastructure Systems as Networks

White, Kimberly **aug 2015 – dec 2015**
Undergraduate Research Student
Civil and Materials Engineering
University of Illinois at Chicago
Topic: Engineering Structures as Complex Structures

Reeder, Matthew **aug 2014 – aug 2015**
Undergraduate Research Fellow
(Chancellor's Award)
Civil and Materials Engineering
University of Illinois at Chicago
Topic: Commercial Building Electricity Use

Eduardo Schaefer Sombrio **may 2015 – aug 2015**

Exchange Research Fellow
Brazilian Scientific Mobility Program
Civil and Materials Engineering
University of Illinois at Chicago
Topic: Network Properties of Road Systems

Flavio Irã Godinho Jr. **may 2015 – aug 2015**
Exchange Research Fellow
Brazilian Scientific Mobility Program
Civil and Materials Engineering
University of Illinois at Chicago
Topic: UIC Infrastructure Systems as Networks

Agondanou, Nouhessedo **aug 2014 – may 2015**
Undergraduate Researcher
Civil and Materials Engineering
University of Illinois at Chicago
Topic: Modeling Building Energy Use

Nainggolan, Laura **aug 2014 – dec 2014**
Undergraduate Researcher
Civil and Materials Engineering
University of Illinois at Chicago
Topic: Modeling the Impacts of Extreme Events

Nedumgottil, Anthony **jun 2014 – aug 2014**
Guaranteed paid internships program
Computer Science
University of Illinois at Chicago
Topic: Building an Online Network Calculator

Pereira, Felipe **may 2014 – aug 2014**
Exchange Research Fellow
Brazilian Scientific Mobility Program
Civil and Materials Engineering
University of Illinois at Chicago
Topic: Genetic Optimization of Metro Design

Andrew, Gary (Joe) **jan 2014 – may 2014**
Undergraduate Research Fellow
(Chancellor's Award)
Civil and Materials Engineering
University of Illinois at Chicago
Topic: Structures as Complex Systems

Jacobs, Paul **aug 2013 – may 2014**
Undergraduate Research Fellow
(Chancellor's Award)
Civil and Materials Engineering
University of Illinois at Chicago
Topic: Urban Water Systems

Agamy, Marian **aug 2013 – dec 2013**
Undergraduate Research Fellow
(Chancellor's Award)
Civil and Materials Engineering
University of Illinois at Chicago
Topic: Sustainable Bridges

Roux, Sabine **apr – aug 2010**
Exchange student from Ecole Nationale des Travaux Publics de l'Etat (ENTPE)
Civil Engineering
University of Toronto
Topic: Transportation Infrastructure in the Urban Metabolism

08 teaching experience

CME440 Cities & Sustainable Infrastructure

Fall 2016 – 40 students – instructor
Graduate and Senior course

CME594 Introduction to Data Science

Winter 2016 – 13 students – instructor
Graduate course

CME 311 Water Resources Engineering

Fall 2015 – 34 students – instructor
Junior course

CME 494 Cities & Sustainable Infrastructure

Winter 2015 – 35 students – instructor
Graduate and Senior course
See [The Image of Chicago](#) poster (48.3 Mb)
See [Design Project Book](#) Compilation (32.1 Mb)

CME 311 Water Resources Engineering

Fall 2014 – 48 students – instructor
Junior course

CME594 Cities and Complexity

Winter 2014 – 6 students – instructor
Graduate course
See [Visualization Poster](#) (5.6Mb)

CME 311 Water Resources Engineering

Fall 2013 – 46 students – instructor
Junior course

CME 494 Cities & Sustainable Infrastructure

Winter 2013 – 19 students – instructor
Graduate and Senior course
See [Design Project Book](#) Compilation (11.7 Mb)

CME 311 Water Resources Engineering

Fall 2012 – 47 students – instructor
Junior course

CIV 577 Infrastructure for Sustainable Cities

Winter 2010 – 47 students – teaching assistant
Graduate and Senior course

CIV 1310 Infrastructure Economics

Fall 2009 – 70 students – teaching assistant
Graduate course

EDV 250 Hydrology and Hydraulics

Winter 2009 – 127 students – teaching assistant
Sophomore course

CIV 368 Engineering Economics and Decision-Making

Fall 2008 – 114 students – teaching assistant
Junior course

CIV 235 Civil Engineering Graphics PO1

Winter 2008 – 108 students – teaching assistant
Sophomore course

CIV 1310 Infrastructure Economics

Fall 2007 – 51 students – teaching assistant
Graduate course

CIV 425 Design of sustainable neighbourhoods

Fall 2006 and Winter 2007 – 40 students – teaching assistant
Senior course

09 academic and professional services

professional services

Girls Who Code (GWC) jul 2016
Speaker

International Symposium on Sustainable Systems and Technology (ISSST) 2016 may 2016

Session Chair
Poster Competition Judge
Phoenix, AZ

Sustainable Urban Systems - International Society for Industrial Ecology may 2016 - present

Co-Chair

International Society for Industrial Ecology dec 2015 - present

Council Member

International Society for Industrial Ecology (ISIE) 2017 Biennale Conference jul 2015 - present

Organizing Committee (Host Institution)
University of Illinois at Chicago

Sustainable Urban Systems - International Society for Industrial Ecology feb 2015 - apr 2016

Board Member

International Symposium on Sustainable Systems and Technology (ISSST) 2015

Derrible, S.

Poster Competition Judge
Dearborn, MI

Illinois Department of Transportation Weather and Manmade Disaster Vulnerability Assessment Program may 2014 - present

Stakeholder

International Society for Industrial Ecology (ISIE) 2013 Biennale Conference jun 2013

Poster Competition Judge
University of Ulsan, South Korea

Illinois (Chicago) Future Cities Competition (Grade 6-8 students) jan 2013

Judge Panel Member

Rail Transit Systems Committee (AP065) - Transportation Research Board apr 2010 - present

Committee Member

academic services

university of illinois at chicago

UIC Graduate College Awards Committee sep 2015 - present

Member

CME Graduate Curriculum Committee sep 2015 - present

Member

may 2015

CME Computer Committee sep 2015 - present

Member

CME Website Committee apr 2015 - present

Member

UIC Summer Institute on Sustainability and Energy project competition aug 2014

Mentor

CME Undergraduate Recruitment Committee oct 2013 - present

Member

CME Departmental Seminar Committee oct 2013 - sep 2015

Member

CME Undergraduate Curriculum Committee sep 2013 - sep 2015

Member

IESP Graduate Fellowship sep 2013

Selection Committee Member

UIC Summer Institute on Sustainability and Energy project competition aug 2013

Mentor

Wilfred F. and Ruth Davison Langelier Scholarship dec 2012 - present

Selection Committee Member

CME Graduate Selection Committee sep 2012 - aug 2013

10 professional and scientific memberships

Member, American Society of Civil Engineers (ASCE) 2012 – present

Member, International Society for Industrial Ecology (ISIE) 2009 – present

Member, TRB Rail Transit Systems Committee (AP065) 2010 – present

Friend, TRB Rail Transit Systems Committee (AP065) 2009 – 2010

Member, Institute of Transportation Engineering (ITE) 2009 – present

Friend, TRB Visualization in Transportation Committee (ABJ95) 2014 – present

Friend, TRB Landscape and Environmental Design Committee (AFB40) 2014 – present

Friend, TRB Transportation Network Modeling (ADB30) 2014 – present

Friend, TRB Public Transportation Planning and Development Committee (AP025) 2012 – present

Friend, TRB Transportation and Sustainability Committee (ADD40) 2009 – present

Friend, TRB Intercity Passenger Rail Committee (AR010) 2009 – 2013

Friend, TRB Transportation and Economic Development Committee (ADD10)

2009 – 2013

Member, Canadian Transportation Research Forum (CTRF) 2009 – 2012

Member, Canadian Society of Civil Engineers (CSCE) 2007 - 2012

11 extra-curricular activities

Civil Engineering Graduate Student Association sep 2008 – aug 2009

Treasurer – University of Toronto

- Maintain sound financial records of the accounts of the association.
- Detain all signing authorities.
- Apply for head grant funding from the Graduate Student Union.
- Organize events for Graduate Students.

Civil Engineering Graduate Student Association sep 2007 – aug 2008

Executive Member – University of Toronto

- Discuss current issues, organize events.
- Participated in updating the association constitution.
- Participated in writing a welcome package to new graduate students.

Ecole Centrale de Lyon Handball Club sep 2005 – mar 2006

Centre Player

Imperial College London Ice Hockey Club sep 2003 – jun 2005

Team Coach – Imperial College London

- Reconfiguration of club and unranked team.
- Recruitment of players, planning and transport: team strategy, training sessions and matches.
- Team ranked 4th in interuniversity league in 2003/04 and 3rd in 2004/2005.