

Connor Riley

PhD Student, Infrastructure Optimization Lab
Georgia Institute of Technology

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Education

- Sept 2018 – Present **Ph.D. Student, Operations Research**, *Georgia Institute of Technology*.
Advised by [Pascal Van Hentenryck](#)
- Sept 2016 – Aug 2018 **Ph.D. Student, Industrial and Operations Engineering**, *University of Michigan*.
Advised by [Pascal Van Hentenryck](#)
- May 2016 **B.S.E., Computer Science and Engineering**, *University of Connecticut, summa cum laude*.
Minor: Mathematics; Honors Thesis: *Equivalent Representations of Circle Packings*

Experience

- Sept 2018 – Present **Georgia Institute of Technology**, *Student Researcher*, Atlanta, Georgia.
Developing simulation, optimization, and artificial intelligence software for the design and operation of large-scale transit systems.
- May 2016 – Aug 2018 **University of Michigan**, *Student Researcher*, Ann Arbor, Michigan.
Developing simulation, optimization, and artificial intelligence software for the design and operation of multi-modal transit systems.
- Sept 2015 – May 2016 **University of Connecticut**, *Student Researcher*, Storrs, Connecticut.
Investigated equivalent representations of circle packings and algorithms to manipulate them.
- Sept 2015 – May 2016 **Senior Design Project**, *Software Developer*, Storrs, Connecticut.
Developed an android application to allow for synchronous music playback on multiple devices through p2p networking.
- Dec 2014 – May 2016 **Center for Voting Technology Research**, *Undergraduate Research Assistant*, Storrs, Connecticut.
Evaluated the functionality and security of various electronic pollbook solutions.
- May 2015 – Aug 2015 **United Technologies Building & Industrial Systems (UTC) – Otis Elevator Company**, *Engineering Intern*, Farmington, Connecticut.
Developed an application to translate UI labels, stored in XML, into the spoken language selected by the user.
- Aug 2014 – Dec 2014 **Cigna Corporation**, *Software Development Intern*, Storrs, Connecticut.
Created a role based access control dashboard to improve employee on-boarding.
- June 2014 – Aug 2014 **Travelers Insurance Company**, *IT Intern*, Hartford, Connecticut.
Coordinated completion of system change requests for an IBM mainframe.

Awards & Honors

- 2016 Graduate Fellowship, UM Industrial Operations Engineering Department
- 2015 [Certificate of Outstanding Academic Achievement](#), UConn Computer Science and Engineering Department
- 2014 [Babbidge Scholar](#), The University of Connecticut
- 2012 – 2016 [Dean's List](#), UConn School of Engineering
- 2012 – 2016 Academic Excellence Scholarship, The University of Connecticut

Skills

- General C, C++, Java, Python, MATLAB, Gurobi, Bash, Git, CMake, Docker, Rancher \LaTeX .
- Parallel Computing MPI, OpenMP.

Affiliations

- 2016 – Present [Institute for Operations Research and the Management Sciences](#)
- 2011 – Present [Tau Beta Pi](#) (The Engineering Honor Society)
- 2010 – Present [Upsilon Pi Epsilon](#) (The Computer Science Honor Society, Secretary for the University of Connecticut Chapter 2011-2012)
- 2010 – Present [ACM](#) (Association for Computing Machinery)

Publications

Conference & Journal Papers

- [1] Connor Riley, Antoine Legrain, and Pascal Van Hentenryck. [Column generation for real-time ride-sharing operations](#). In *Integration of Constraint Programming, Artificial Intelligence, and Operations Research - 16th International Conference, CPAIOR 2019, Thessaloniki, Greece, June 4-7, 2019, Proceedings*, pages 472–487, 2019.
- [2] Kevin Pratt, Connor Riley, and Donald Sheehy. [Exploring Circle Packing Algorithms](#). In Sándor Fekete and Anna Lubiw, editors, *32nd International Symposium on Computational Geometry (SoCG 2016)*, volume 51 of *Leibniz International Proceedings in Informatics (LIPIcs)*, pages 69:1–69:4, Dagstuhl, Germany, 2016. Schloss Dagstuhl–Leibniz-Zentrum fuer Informatik.

Posters & Presentations

- [3] Antoine Legrain, Connor Riley, and Pascal Van Hentenryck. An on-demand multi-modal transportation system. In *21st Conference of the International Federation of Operational Research Societies (IFORS '17)*, Quebec City, Quebec, July 17-21, 2017.
- [4] Tim Hull, Antoine Legrain, Ben Reeves, Connor Riley, Edward Fenwick, Jacob Ketter, and Pascal Van Hentenryck. Collecting data for an activity-based model of ann arbor. In *1st Michigan Institute for Data Science Symposium (MIDAS '16)*, Ann Arbor, MI, November 15-16, 2014.
- [5] Tim Hull, Antoine Legrain, Connor Riley, and Pascal Van Hentenryck. A software architecture for an on-demand transit system. In *1st Michigan Institute for Data Science Symposium (MIDAS '16)*, Ann Arbor, MI, November 15-16, 2014.
- [6] Ben Reeves, Connor Riley, Josh Lustig, Jane Zho, Will Burns, Kevin Jeoung, Jeff Sica, and Pascal Van Hentenryck. Pioneering campus-wide data collection through mobile apps. In *1st Michigan Institute for Data Science Symposium (MIDAS '16)*, Ann Arbor, MI, November 15-16, 2014.
- [7] Connor Riley, Antoine Legrain, Ben Reeves, Jacob Ketter, and Pascal Van Hentenryck. An online greedy algorithm for an on-demand transit system. In *1st Michigan Institute for Data Science Symposium (MIDAS '16)*, Ann Arbor, MI, November 15-16, 2014.