LENING LI

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EDUCATION

Worcester Polytechnic Institute *September 2016 - Present*
Robotics Engineering *Doctorate Candidate*
Advisor: Jie Fu
Overall GPA: 3.76/4.0
President of Graduate Student Government (GSG) *January 2019 - Present*

Higher Education Consortium of Central Massachusetts *July 2018 - August 2019*
Certificate in College Teaching

Worcester Polytechnic Institute *September 2014 - May 2016*
Computer Science *Master of Science*
Thesis: BiRRTOpt: A COMBINED SOFTWARE FRAMEWORK FOR MOTION PLANNING APPLIED ON ATLAS ROBOT
Advisor: Michael, Gennert
Overall GPA: 3.64/4.0

Harvard Summer School *June 2015 - August 2015*
Computer Science
Overall GPA: 4.0/4.0

Harbin Institute of Technology *September 2010 - July 2014*
Information Security (Computer Science) *Bachelor of Science*
Thesis: Contourlet Transform Based Image Compression
Advisor: Miao, Zhang
English Language and Literature *Bachelor of Arts*
Thesis: A Study on the Male Chauvinism in "Women in Love"
Advisor: Yuping, Jia
Overall GPA: 85/100 (Top 10%)

TECHNICAL STRENGTHS

Computer Languages	C/C++, MATLAB, Python, Java, HTML, JavaScript, SQL, Assembly Language, BASIC, XML, ASP, Verilog, CSS
Software & Tools	ROS, LaTeX, MFC, PowerBuilder, Qt Creator, IxChariot, Git, Vim

RESEARCH EXPERIENCE

Control and Intelligent Robotics Lab (CIRL) Worcester Polytechnic Institute
Research Assistant *June 2019 - Present*

· Working on the *Serial Interactions in Imperfect Information Games Applied to Complex Military Decision Making (SI3-CMD).*

Control and Intelligent Robotics Lab (CIRL) Worcester Polytechnic Institute
Research Assistant *June 2016 - August 2017*

· Worked on the *reinforcement learning under temporal logic constraints.*

TEACHING EXPERIENCE

Worcester Polytechnic Institute Worcester, MA
Teaching Assistant *August 2018 - December 2018*

· Collaborated with another teaching assistant and two graders to help improving the teaching quality of the course called *Computer Vision*.

Worcester Polytechnic Institute Worcester, MA
Teaching Assistant *August 2017 - May 2018*

· Led a team of 5 to help and collaborate with students for improving the teaching quality of the course called *Introduction to Robotics*.

INDUSTRY EXPERIENCE

Rudolph Technologies Tewksbury, MA
Software Engineering Contractor *August 2015 - January 2016*

· Developed the software to process date collected from the wafers to help customers including Samsung, Intel, and et al. improve the production of wafers.

Rudolph Technologies Tewksbury, MA
Software Engineering Intern *July 2015 - August 2015*

· Programmed and Assisted in migrating code and history from several version control systems on various operating systems to Perforce.

Neusoft Dalian, China
Software Engineering Intern *July 2013 - August 2013*

· Developed map management system for storing, inserting, deleting, sorting, and search maps.

Philips(China) Shanghai, China
Software Engineering Intern *July 2012 - August 2012*

· Assisted in fixing bugs and improving the performance of mature software product.

AWARDS

Harbin Institute of Technology Harbin, China
Summa Cum Laude *July 2014*

· Graduated with University Highest Honor.

PUBLICATIONS

Conference

Li, L., & Fu, J. (2019). Topological Approximate Dynamic Programming under Temporal Logic Constraints. Submitted to 58th IEEE Conference on Decision and Control (CDC 2019). IEEE.

L. Li and J. Fu, "Approximate dynamic programming with probabilistic temporal logic constraints," *arXiv preprint arXiv:1810.02199*, 2018

L. Li and J. Fu, "Sampling-based approximate optimal temporal logic planning," in *Robotics and Automation (ICRA), 2017 IEEE International Conference on*, pp. 1328–1335, IEEE, 2017

L. Li, X. Long, and M. A. Gennert, "Birrtopt: A combined sampling and optimizing motion planner for humanoid robots," in *Humanoid Robots (Humanoids), 2016 IEEE-RAS 16th International Conference on*, pp. 469–476, IEEE, 2016

C. G. Atkeson, B. P. W. Babu, N. Banerjee, D. Berenson, C. P. Bove, X. Cui, M. DeDonato, R. Du, S. Feng, P. Franklin, *et al.*, "No falls, no resets: Reliable humanoid behavior in the darpa robotics challenge," in *Humanoid Robots (Humanoids), 2015 IEEE-RAS 15th International Conference on*, pp. 623–630, IEEE, 2015

Journal

Z. Chen, L. Li, and X. Huang, "Building an autonomous lane keeping simulator using real-world data and end-to-end learning," *IEEE Intelligent Transportation Systems Magazine*, pp. 1–1, 2018

M. DeDonato, F. Polido, K. Knoedler, B. P. Babu, N. Banerjee, C. P. Bove, X. Cui, R. Du, P. Franklin, J. P. Graff, *et al.*, "Team wpi-cmu: Achieving reliable humanoid behavior in the darpa robotics challenge," *Journal of Field Robotics*, vol. 34, no. 2, pp. 381–399, 2017

C. G. Atkeson, B. Babu, N. Banerjee, D. Berenson, C. Bove, X. Cui, M. DeDonato, R. Du, S. Feng, P. Franklin, *et al.*, "What happened at the darpa robotics challenge, and why," *submitted to the DRC Finals Special Issue of the Journal of Field Robotics*, vol. 1, 2016

Book

C. G. Atkeson, P. B. Benzun, N. Banerjee, D. Berenson, C. P. Bove, X. Cui, M. DeDonato, R. Du, S. Feng, P. Franklin, *et al.*, "Achieving reliable humanoid robot operations in the darpa robotics challenge: Team wpi-cmus approach," in *The DARPA Robotics Challenge Finals: Humanoid Robots To The Rescue*, pp. 271–307, Springer, 2018

C. G. Atkeson, P. B. Benzun, N. Banerjee, D. Berenson, C. P. Bove, X. Cui, M. DeDonato, R. Du, S. Feng, P. Franklin, *et al.*, "What happened at the darpa robotics challenge finals," in *The DARPA Robotics Challenge Finals: Humanoid Robots To The Rescue*, pp. 667–684, Springer, 2018

Thesis

L. Li, "Birrtopt: A combined software framework for motion planning applied on atlas robot," Master's thesis, WORCESTER POLYTECHNIC INSTITUTE, 2016

EXTRACURRICULAR

Lhasa Welfare Center for Children — Tibet, China
Volunteer Teacher — *August 2013 - September 2013*

- Raised funds for children who cannot afford schools.
- Volunteered to teach children.