Appendix B

Constantinos Chamzas

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Education

- **William Marsh Rice University** — Houston, TX, USA
  Ph.D. in Computer Science, Advisor: Dr. Lydia E. Kavraki — *Aug. 2017 – May 2023*
  - Thesis: Retrieval-Based Learning for Efficient High-DoF Motion Planning
- **Aristotle University of Thessaloniki** — Thessaloniki, Greece
  Diploma in Electrical and Computer Engineering — *Sep.2011 – Apr.2017*
  - Graduated with "Excellent," **8.86/10** cumulative average (Top 2%)
  - Thesis: Structural Analysis of Handwritten Equations Using Probabilistic Context-Free Grammars

Work Experience

- **Worcester Polytechnic Institute** — WPI, Worcester
  Assistant Professor, Robotics Engineering — *July. 2023 – Present*
  - Research Areas: Learning and Planning, Planning under Uncertainty, Task and Motion Planning
- **Kavraki Lab,** http://kavrakilab.org/ — Rice University, Houston
  Graduate Student — *Aug. 2017 – May 2023*
  - Authored research papers in Robotic Learning
- **NVIDIA Seattle Robotics Lab,** https://nvidia_srl.gitlab.io/ — NVIDIA, Remote
  Research Intern — *Sept. 2022 – Dec. 2022*
  - Worked on robust Task and Motion Planning

Open Source Software

- **MotionBenchMaker** — https://github.com/KavrakiLab/motion_bench_maker
  Core Developer/Maintainer — *January 2022 – present*
- **Robowflex Library** — https://github.com/KavrakiLab/robowflex
  Core Contributor — *March 2019 – present*
- **The Open Motion Planning Library (OMPL)** — http://ompl.kavrakilab.org/
  Contributor — *Jul. 2019 – present*

Awards, Nominations and Fellowships

- **ICRA 2021 Best Paper Top-4 Finalist in Cognitive Robotics** — Rice University, Houston
  Nomination of relevant papers in a competitive basis — *Jun. 2021*
- **NSF Graduate Research Fellowship** — Rice University, Houston
  Awarded to outstanding graduate students in the US in STEM — *May. 2019*

Relevant Publications

[1] C. Chamzas, A. Shrivastava, L. E. Kavraki "Using Local Experiences for Global Motion Planning", *IEEE International Conference on Robotics and Automation (ICRA)*, 2019.

[2] M. Moll, C. Chamzas, Z. Kingston , L. E. Kavraki "HyperPlan: A Framework for Motion Planning Algorithm Selection and Parameter Optimization", *In IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS)*, 2021.

[3] E. Pairet, C. Chamzas, Y. Petillot, L. E. Kavraki "Path Planning for Manipulation using Experience-driven Random Trees", *IEEE Robotics and Automation Letters (RAL)*, 2021.

[4] C. Chamzas, C. Quintero-Peña, Z. Kingston, A. Orthey, D. Rakita, M. Gleicher, M. Toussaint, L. E. Kavraki "MotionBenchMaker: A tool to Generate and Benchamark Motion Planning Datasets", *IEEE Robotics and Automation Letters (RAL)*, 2022.