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Samuel Zapsky

Robotics & A.I.

Experience

Graduate Research Assistant | Sep 2012 – present

The George Washington University

Positronics Lab (Planning, Optimization & Simulation for Robotics)

Washington, DC

Advisor: Evan Drumwright

Visiting Researcher | July 2012 – Sep 2012

Italian Institute of Technology: Department of Advanced Robotics

Dynamic Legged Systems Lab

Genoa, Italy

Advisors: Jonas Buchli & Claudio Semini

Education

Graduate | Sep 2012 – present

The George Washington University

The School of Engineering and Applied Sciences

Ph.D. Computer Science: Robotics and A.I.

Advisor: Evan Drumwright

Undergraduate | Aug 2008 – May 2012

The George Washington University

The Elliott School of International Affairs

B.A. International Affairs & Economics (B.S. requirements)

Minor in Computer Science & Concentration in International Economics

Software Developed

Created

- **Pacer**: Modular, Real-Time Robot Planning and Control Software (C++)

Contributed

- **Moby**: Multi-Body Dynamics Simulator & Numerical Optimization Library (C++)
- **Ravelin**: Linear Algebra & Rigid Multi-Body Dynamics Library (C++)

Skills

Languages

- Spanish – speaking (limited), reading (minimum) & writing (minimum)*
*Proficiencies defined by the *Department of State*

Programs

- ROS & Gazebo
- GDB & LLDB
- MATLAB

Programming, Scripting & Other Languages

- C/C++
- Python
- Bash
- Java
- Perl
- LaTeX

Key Publications

Particle Traces for Detecting Divergent Robot Behavior

Samuel Zapsky and Evan M. Drumwright

IEEE-RAS International Conference on Humanoid Robots (Humanoids)

Cancun, Mexico, Nov 2016. [PDF]

Interactive, Iterative Robot Design

Bradley Canaday, Samuel Zapsky, Evan M. Drumwright

in review *IEEE International Conference on Robotics and Automation (ICRA)*

Singapore, May 2017. [PDF]

Inverse Dynamics with Rigid Contact and Friction

Samuel Zapsky and Evan M. Drumwright

Auton Robot (2016). doi:10.1007/s10514-016-9608-7 [PDF]

Adaptive Integration for Controlling Speed vs. Accuracy in Multi-Rigid Body Simulation

Samuel Zapsky and Evan M. Drumwright

The 2015 IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS 2015)

Hamburg, Germany, Sep 2015. [PDF]