

Sebastian Claiici

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Education

2016–2020 **PhD, Electrical Engineering and Computer Science**, *Massachusetts Institute of Technology*, Cambridge, MA.

Advisor: Professor Justin Solomon

GPA: 4.9/5.0

2014–2016 **SM, Electrical Engineering and Computer Science**, *Massachusetts Institute of Technology*, Cambridge, MA.

Advisor: Professor Daniela Rus

Thesis: Aggregation for Modular Robots in the Pivoting Cube Model

GPA: 5.0/5.0

2010–2014 **BS, Computer Science**, *University of Southampton*, Southampton, UK.

GPA: 85.2/100

Honors: Zepler project prize

Experience

Summer 2018 **PhD Intern**, *Google*, Mountain View, CA.

Undisclosed machine learning project for the AdSpam team.

Summer 2016 **Research Intern**, *Bosch*, Palo Alto, CA.

Designed a pipeline for semantic segmentation of building interiors into constituent parts (walls, floor, clutter, etc.). The internship culminated in a publication that was accepted for ICRA 2017.

Spring 2014 **Research Assistant**, *University of Southampton*, Southampton, UK.

Computational biology project on detecting signatures for mental health disorders.

Summer 2013 **Research Intern**, *EPFL*, Lausanne, Switzerland.

Designed a semi-supervised system for high-level activity recognition.

Publications

- [1] **Sebastian Claiici**, Edward Chien, and Justin Solomon. “Stochastic Wasserstein Barycenters”. In: *Proceedings of the 35th International Conference on Machine Learning, ICML 2018, Stockholmsmässan, Stockholm, Sweden, July 10-15, 2018*. 2018, pp. 998–1007. URL: <http://proceedings.mlr.press/v80/claiici18a.html>.
- [2] **Sebastian Claiici** and Justin Solomon. “Wasserstein Coresets for Lipschitz Costs”. In: *CoRR* abs/1805.07412 (2018). arXiv: 1805.07412. URL: <http://arxiv.org/abs/1805.07412>.
- [3] Rares Ambrus*, **Sebastian Claiici***, and Axel Wendt. “Automatic Room Segmentation From Unstructured 3-D Data of Indoor Environments”. In: *IEEE Robotics and Automation Letters* 2.2 (2017), pp. 749–756. DOI: 10.1109/LRA.2017.2651939. URL: <https://doi.org/10.1109/LRA.2017.2651939>.

- [4] Cenk Baykal, Guy Rosman, **Sebastian Claiçi**, and Daniela Rus. “Persistent surveillance of events with unknown, time-varying statistics”. In: *2017 IEEE International Conference on Robotics and Automation, ICRA 2017, Singapore, Singapore, May 29 - June 3, 2017*. 2017, pp. 2682–2689. DOI: 10.1109/ICRA.2017.7989313. URL: <https://doi.org/10.1109/ICRA.2017.7989313>.
- [5] **Sebastian Claiçi**, Mikhail Bessmeltsev, S. Schaefer, and Justin Solomon. “Isometry-Aware Preconditioning for Mesh Parameterization”. In: *Comput. Graph. Forum* 36.5 (2017), pp. 37–47. DOI: 10.1111/cgf.13243. URL: <https://doi.org/10.1111/cgf.13243>.
- [6] **Sebastian Claiçi**, John Romanishin, Jeffrey I. Lipton, Stéphane Bonardi, Kyle William Gilpin, and Daniela Rus. “Distributed aggregation for modular robots in the pivoting cube model”. In: *2017 IEEE International Conference on Robotics and Automation, ICRA 2017, Singapore, Singapore, May 29 - June 3, 2017*. 2017, pp. 1489–1496. DOI: 10.1109/ICRA.2017.7989178. URL: <https://doi.org/10.1109/ICRA.2017.7989178>.
- [7] Matthew Staib, **Sebastian Claiçi**, Justin M. Solomon, and Stefanie Jegelka. “Parallel Streaming Wasserstein Barycenters”. In: *Advances in Neural Information Processing Systems 30: Annual Conference on Neural Information Processing Systems 2017, 4-9 December 2017, Long Beach, CA, USA*. 2017, pp. 2644–2655. URL: <http://papers.nips.cc/paper/6858-parallel-streaming-wasserstein-barycenters>.
- [8] John W. Romanishin, Kyle Gilpin, **Sebastian Claiçi**, and Daniela Rus. “3D M-Blocks: Self-reconfiguring robots capable of locomotion via pivoting in three dimensions”. In: *IEEE International Conference on Robotics and Automation, ICRA 2015, Seattle, WA, USA, 26-30 May, 2015*. 2015, pp. 1925–1932. DOI: 10.1109/ICRA.2015.7139450. URL: <https://doi.org/10.1109/ICRA.2015.7139450>.

Invited Conferences

Spring 2017 **Optimal Transport Meets Probability, Statistics and Machine Learning**, Casa Matemática Oaxaca (CMO), Oaxaca, Mexico.

Professional Activities

Reviewer

Neural Information Processing Systems (NIPS)

International Conference on Machine Learning (ICML)

SIAM Journal on Imaging Sciences (SIIMS)

Teaching

Students Supervised

Spring 2016 Elizabeth Mittman