

Manuel O. J. Olguín Muñoz

<https://olguin.se> | <https://github.com/molguin92>

See above URLs for full list of academic achievements.

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CURRENT

- **Carnegie Mellon University** Pittsburgh, PA
Short-term Scholar. Sponsor: Dr. Mahadev Satyanarayanan Nov. 2017 — (Present)
Collaboration with the *Elijah* group on the topics of *Edge Computing* and *Wearable Cognitive Assistance*.
- **KTH Royal Institute of Technology** Stockholm, Sweden
Doctoral Researcher. Advisor: Dr. James Gross Sep. 2017 — (Present)
Research interests broadly in mobile, cloud, and pervasive computing and low-latency systems and architectures.

PAST

- **NIC Chile Research Labs** Santiago, Chile
Graduate Research Assistant Aug. 2015 — June 2017
Developed a framework integrating a discrete event simulator with a traffic simulator, for Intelligent Transport System scenarios simulation.
- **Epistemonikos Foundation** Santiago, Chile
Software Developer Aug. 2016 — Dec. 2016
Designed and deployed a number of in-house software solutions to optimize workflow and improve efficiency in the activities of the foundation (principally in the form of RESTful web services).

EDUCATION

- **Ph.D., Electrical Engineering** Ongoing
KTH Royal Institute of Technology Sep. 2017 — Sep. 2022 (estimated)
- **Engineer's Degree, Computer Science** Graduated with Highest Honors
Universidad de Chile. Equivalent to an M.Sc.Eng. outside of Chile. Mar. 2011 — Aug. 2017
- **B.Eng.Sc., Computer Science** Graduated with Honors
Universidad de Chile Mar. 2011 — Aug. 2017

PUBLICATIONS

- [1] Manuel Osvaldo J. Olguín Muñoz, Junjue Wang, Mahadev Satyanarayanan, and James Gross. 2019. EdgeDroid: An Experimental Approach to Benchmarking Human-in-the-Loop Applications. In *Proceedings of the 20th International Workshop on Mobile Computing Systems and Applications* (HotMobile '19). ACM, Santa Cruz, CA, USA, 93–98. ISBN: 978-1-4503-6273-3. DOI: 10.1145/3301293.3302353. <http://doi.acm.org/10.1145/3301293.3302353>.
Demo: Scaling on the Edge – A Benchmarking Suite for Human-in-the-Loop Applications. In *2018 IEEE/ACM Symposium on Edge Computing (SEC)*, 323–325. DOI: 10.1109/SEC.2018.00031.
- [2] Manuel Olguín Muñoz, Junjue Wang, Mahadev Satyanarayanan, and James Gross. 2018.
- [3] Manuel Olguín Muñoz. 2017. *Diseño e Implementación de un Framework Integrado para Simulaciones de Sistemas Inteligentes de Transporte en OMNeT++ y Paramics*. Engineer's Degree Thesis. Universidad de Chile, Santiago, Chile. <http://repositorio.uchile.cl/handle/2250/147392>.

SKILLS

- Programming languages: Python, Java, C++, C.
- Markup languages: HTML+CSS, L^AT_EX, Markdown.
- Operating Systems: advanced-intermediate skills in Linux-based OSs.
- Data Analysis and Visualization: Pandas, Numpy, Matplotlib, Tableau.
- Misc: dances and teaches cuban rhythms on his free time; holds a 1st degree dan black belt in Taekwondo.

LANGUAGES

Spanish (*Native*), **English** (*Fluent*), **Swedish** (*Fluent*).