

Manuel O. J. Olguín Muñoz

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

See above URLs for full list of academic achievements and publications.

Email : manuel@olguin.se

Mobile : +46-73-652-7628

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 — (Present)
- **Engineer's Degree, Computer Science** Graduated with Highest Honors
Universidad de Chile Mar. 2011 — Aug. 2017
- **B.Eng.Sc. in 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>.

TECHNICAL SKILLS

- Programming languages: Python, Java, C++, C.
- Markup languages: HTML+CSS, L^AT_EX, Markdown.
- Operating Systems: Skills in Linux-based OSs.
- Data Analysis and Visualization: Pandas, Numpy, Matplotlib, Tableau.

LANGUAGES

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

REFERENCES

- **James Gross**, Associate Professor of Electrical Engineering.
School of Electrical Engineering and Computer Science, KTH Royal Institute of Technology.
+46-8-790-8819 | james.gross@ee.kth.se
<http://www.jamesgross.org/>
- **Sandra Céspedes**, Assistant Professor of Electrical Engineering.
Department of Electrical Engineering, Universidad de Chile.
+56-2-29784093 | scespedes@ing.uchile.cl
<https://www.cec.uchile.cl/scespedes/>
- **Jérémy Barbay**, Assistant Professor of Computer Science.
Department of Computer Science, Universidad de Chile.
+56-2-2978-4365 | jeremy@barbay.cl
<http://barbay.cl/>