

# Gabriele Marini

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Summary	Third year PhD Candidate at the University of Melbourne, sponsored by CSIRO-Data61. My research focuses on indoor localisation, sensors and modeling. I am very passionate about research and especially ubiquitous computing but I often work with 3D graphics (Unity mostly) and Android.	
Education	<b>PhD in Computing and Information Systems</b> May 2018 - Ongoing <i>University of Melbourne.</i> Melbourne, Australia Third year PhD Candidate. Expected graduation: May 2021	
	<b>PhD in Computing and Information Systems</b> May 2018 - Ongoing <i>CSIRO - Data61.</i> Melbourne, Australia	
	<b>MSc in Computer Science (Laurea Magistrale)</b> Jun 2017 <i>Università degli Studi di Pisa.</i> Pisa, Italy Final grade: 110/110 <i>cum laude</i>	
	<b>BSc in Computer Science</b> Jul 2014 <i>Università degli Studi di Cagliari (Laurea Triennale).</i> Cagliari, Italy Final grade: 110/110 <i>cum laude</i>	
Experience	<b>PhD Candidate</b> Jul 2018 - Ongoing <i>University of Melbourne.</i> Melbourne, Australia <ul style="list-style-type: none"><li>• <b>Member</b> of the <i>NHMRC Center for Research Excellence</i></li><li>• <b>Treasurer</b> of the CIS Research Students Association (<b>CIS-GReS</b>)</li><li>• <b>Teaching</b>: Tutoring includes material creation, teaching and exams/projects marking.<ul style="list-style-type: none"><li>- INFO90003 (2020): Designing Novel Interaction</li><li>- COMP30019 (2018, 2019 and 2020): Computer Graphics and Interaction</li><li>- SWEN20003 (2019): Object Oriented Software Development</li></ul></li><li>• <i>Equipment manager</i> for the IDL lab</li><li>• <i>Floor Warden</i></li></ul>	
	<b>Consultant</b> Oct 2017 - Feb 2018 <i>European Central Bank (ECB).</i> Frankfurt, Germany I worked on the long-term IReF project. I implemented an online survey to be sent out to all the banks in Europe. Besides that, I offered technical support for IT-related matters (Python scripts, WordPress websites management, Javascript, VBA)	
	<b>Research Assistant</b> Jun 2017 - Oct 2017 <i>TeCIP Institute, Scuola Superiore Sant'Anna.</i> Pisa, Italy I worked mostly on robot vision and Hand-Eye camera robot calibration. I also developed part of the HMI (C#, MySQL) with a 3D Viewer of the robotic arm with inverse kinematics	
	<b>Intern</b> Oct 2016 - Jun 2017 <i>VRMedia - Scuola Superiore Sant'Anna.</i> Pisa, Italy I developed and wrote my master thesis under the supervision of Prof. Franco Tecchia.	
Technical skills	<b>Programming Languages:</b> C++, C#, C, PHP, Java, Python <b>Data Analysis/Visualisation:</b> R, Python, Javascript (and NodeJS), SQL, MySQL, Mat-Lab <b>Web Development:</b> HTML, CSS, Javascript (and NodeJS), PHP	

**Markup Languages:** Latex, Markdown, YAML, HTML, XML, JSON

**Tools/Framework:** Many IDEs and notebooks such as PyCharm, Eclipse, Jupyter, RStudio, Unity3D, Photoshop, Blender, WordPress

## Projects

**Semantic Indoor Localisation**, *PhD Research Project*

Supervisor: Prof. Vassilis Kostakos

**Emotion Recognition with Affectiva**, *Side project at UniMelb*

Developed as a way of interacting with PCs through emotions and facial expressions, we used the Affectiva SDK and C# on Windows or Java on Android.

**Injection of a scripting language into the Unreal Engine**, *Master thesis*

Supervisor: Prof. Franco Tecchia

**MeshLabJS Texture and .zip support**, *Final project*

Supervisor: Prof. Paolo Cignoni

**Interactive shoes showcase**, *Bachelors thesis*

Supervisor: Prof. Riccardo Scateni

## Languages

- **Italian**, Native speaker
- **English**, fluent, TOEFL: 112 (C2)
- **Spanish**, Intermediate
- **Portuguese**, Beginner

## Certificates

- **MTC-GR** - Melbourne Teaching Certificate for Graduate Research Nov 2019
- **WWCC** - Working With Children Certificate Feb 2019
- *UniMelb Tutor Development Program* Jun 2018
- **RIOT** - Research Integrity Online Training Jun 2018
- **TOEFL** 112/120 (Reading: 28, Listening: 28, Speaking: 26, Writing: 30) Sep 2017

## Awards

- **PhD Scholarship** awarded by *CSIRO - Data61*
- **Top graduates award** awarded by *Università di Pisa*
- **Top graduates award** awarded by *ERSU Cagliari*

## Relevant courses

- Designing Novel Interaction (Distinguished Project Award)
- Research Methods • Computer Graphics • Linear Algebra
- Introduction to Robotics • Virtual Environments
- Programming Languages and Compilers • Advanced Databases
- Advanced Programming • Advanced Algorithms

## Additional Activities

- SV (Student Volunteer) at UbiComp 2020 in Cancún, Mexico (postponed to 2021)
- Doctoral Colloquium and Workshop presenter at UbiComp 2019 in London, UK
- SV (Student Volunteer) at UbiComp 2019 in London, UK
- Open Day Volunteer at the University of Melbourne, Australia
- SV (Student Volunteer) and attendee at OzCHI 2018 in Melbourne, Australia
- Attended UbiComp 2018 in Singapore

## Extras

- Amateur photographer (landscape, astro-photography and aerial)
- Traveller and backpacker
- Long distance and open water swimmer

## Publications

1. Marini. G, Tag B, Goncalves J, Velloso E, Jurdak R, Kostakos V. A System to Quantify Mobility and Occupancy Levels in Clinical Settings: Development and Implementation, DOI: 10.2196/preprints.19874

2. G. Marini. Towards indoor localisation analytics for modelling flows of movements. 2019. International Joint Conference on Pervasive and Ubiquitous Computing Adjunct (UbiComp '19 Adjunct) 377–382. doi:10.1145/3341162.3349306
3. G. Marini, J. Gonçalves, E. Velloso, R. Jurdak, and V. Kostakos. 2019. Towards context-free semantic localisation. International Joint Conference on Pervasive and Ubiquitous Computing Adjunct (UbiComp '19 Adjunct), 584–591. doi: 10.1145/3341162.3349329.
4. Northern Health gets its teeth into patient flow. 2019. VicHealth [URL]
5. W. Jiang, G. Marini, N. Berkel, Z. Sarsenbayeva, Z. Tan, C. Luo, X. He, T. Dinger, J. Goncalves, Y. Kawahara, V. Kostakos. 2019. Probing Sucrose Contents in Everyday Drinks Using Miniaturized Near-Infrared Spectroscopy Scanners. Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies (IMWUT), 3(4), 136:1–136:25. doi: 10.1145/3369834. [ERA: A\*].
6. W. Jiang, G. Marini, N. Berkel, Z. Sarsenbayeva, C. Luo, X. He, T. Dinger, Y. Kawahara, V. Kostakos. 2018. A Mobile Scanner for Probing Liquid Samples in Everyday Settings. 19 International Joint Conference on Pervasive and Ubiquitous Computing Adjunct (UbiComp Adjunct). ACM, 1172–1177. doi: 10.1145/3267305.3274764.
7. Z. Sarsenbayeva, G. Marini, N. van Berkel, C. Luo, W. Jiang, K. Yang, G. Wadley, T. Dinger, V. Kostakos, J. Goncalves, "Does Smartphone Use Drive our Emotions or vice versa? A Causal Analysis", in Proceedings of ACM SIGCHI Conference on Human Factors in Computing Systems (CHI'20), 2020, to appear.
8. D. Hettiachchi, Z. Sarsenbayeva, F. Allison, N. van Berkel, T. Dinger, G. Marini, V. Kostakos, J. Goncalves, "'Hi! I am the Crowd Tasker' – Crowdsourcing through Digital Voice Assistants", in Proceedings of ACM SIGCHI Conference on Human Factors in Computing Systems (CHI'20), 2020, to appear.