

# Gabriele Marini

Italian, 12th of September 1992  
giaga7@gmail.com  
marinig@student.unimelb.edu.au  
(+61) 481149376

Melbourne, Australia  
<http://gmarini.com>  
LinkedIn: @gabryxx7  
GitHub: @gabryxx7

---

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	<div><div><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</div><div><b>PhD in Computing and Information Systems</b>May 2018 - Ongoing <i>CSIRO - Data61.</i> Melbourne, Australia</div><div><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></div><div><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></div></div>
Experience	<div><div><b>Data Science Research Intern</b>June 2021 - August 2021 <i>Nokia Bell Labs.</i> (Remote) Cambridge, UK IoT, sensing and data science internship</div><div><b>PhD Candidate</b>Jul 2018 - Ongoing <i>University of Melbourne.</i> Melbourne, Australia<ul style="list-style-type: none"><li>• <b>Trainees Program Chair</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>- INFO20005 (2021): UI Development</li><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> for the CIS department</li></ul></div><div><b>Consultant</b>Oct 2017 - Feb 2018 <i>European Central Bank (ECB).</i> Frankfurt, Germany I worked on the long-term IReF project implementing 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, SQL)</div><div><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</div><div><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.</div></div>

Technical skills	<b>Programming Languages:</b> C++, C#, C, PHP, Java, Python <b>Data Analysis/Visualisation:</b> R, Python, Javascript (and NodeJS), SQL, MySQL, MatLab <b>Web Development:</b> HTML, CSS, Javascript (and NodeJS), PHP <b>Markup Languages:</b> Latex, Markdown, YAML, HTML, XML, JSON <b>Tools/Framework:</b> Many IDEs and notebooks such as PyCharm, Eclipse, Jupyter, RStudio, Unity3D, Photoshop, Blender, WordPress		
Talks	<ul style="list-style-type: none"> <li>• <i>Brainstorming Workshop</i></li> <li>• <i>Masterclass in Photography for HCI Research</i></li> <li>• <i>Towards Context-Free Semantic Localization</i></li> <li>• <i>Towards Indoor Localization Analytics for Modelling Flow of Movements</i></li> <li>• <i>Flow-Optimisation based on indoor localisation</i></li> <li>• <i>Reliable Operating Rooms</i></li> <li>• <i>Seminar on Indoor Localisation for supporting decision-making</i></li> <li>• <i>PhD Confirmation Seminar - Flow Optimization based on indoor localization</i></li> </ul>	NHMRC CRE 2021 University of Melbourne, April 2021 UbiComp, London, UK, Sep 2019 Doctoral Colloquium, London, UK, Sep 2019 Data61/CSIRO, Aug 2019 Northern Health, Melbourne, Nov 2018 University of Melbourne, Nov 2018 University of Melbourne, June 2018	
Projects	<b>Semantic Indoor Localisation, PhD Research Project</b> Supervisor: Prof. Vassilis Kostakos  <b>Emotion Recognition with Affectiva, Side project at UniMelb</b> 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.  <b>Injection of a scripting language into the Unreal Engine, Master thesis</b> Supervisor: Prof. Franco Tecchia  <b>MeshLabJS Texture and .zip support, Final project</b> Supervisor: Prof. Paolo Cignoni  <b>Interactive shoes showcase, Bachelors thesis</b> Supervisor: Prof. Riccardo Scateni		
Languages	<ul style="list-style-type: none"> <li>• <b>Italian</b>, Native speaker</li> <li>• <b>English</b>, Fluent, TOEFL: 112 (C2)</li> <li>• <b>Spanish</b>, Intermediate</li> </ul>		
Certificates	<ul style="list-style-type: none"> <li>• <b>MTC-GR</b> - Melbourne Teaching Certificate for Graduate Research</li> <li>• <b>WWCC</b> - Working With Children Certificate</li> <li>• <i>UniMelb Tutor Development Program</i></li> <li>• <b>RIOT</b> - Research Integrity Online Training</li> <li>• <b>TOEFL</b> 112/120 (Reading: 28, Listening: 28, Speaking: 26, Writing: 30)</li> <li>• <b>PADI</b> - Open Water Diving License</li> </ul>	Nov 2019 Feb 2019 Jun 2018 Jun 2018 Sep 2017	
Awards	<ul style="list-style-type: none"> <li>• <b>PhD Scholarship</b> awarded by <i>CSIRO - Data61</i></li> <li>• <b>Top graduates award</b> awarded by <i>Università di Pisa</i></li> <li>• <b>Top graduates award</b> awarded by <i>ERSU Cagliari</i></li> </ul>		
Relevant courses	<ul style="list-style-type: none"> <li>• Designing Novel Interaction (Distinguished Project Award)</li> <li>• Research Methods • Computer Graphics • Linear Algebra</li> <li>• Introduction to Robotics • Virtual Environments</li> <li>• Programming Languages and Compilers • Advanced Databases</li> <li>• Advanced Programming • Advanced Algorithms</li> </ul>		

## Additional Activities

- Attended CHI 2021 remotely
- SV (Student Volunteer) at UbiComp 2020 Online
- 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. G. Marini, B. Tag, J. Goncalves, E. Velloso, R. Jurdak, V. Kostakos. Measuring Mobility and Room Occupancy in Clinical Settings: System Development and Implementation, DOI: 10.2196/19874
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. Dingler, 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. Dingler, 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. Dingler, 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. Dingler, 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.