

# Giovanni Campagna

## Contact information

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## Education

- PhD in Computer Science  
Stanford University 2016 – 2020 (expected)  
Thesis (expected): “ThingTalk: A Language for a Privacy-Preserving End-User Programmable Virtual Assistant”
- MS in Computer Science (Software Theory track)  
Stanford University 2014 – 2016
- B.Eng. in Engineering of Computer Systems  
Politecnico di Milano 2011 – 2014

## Work experiences

- Stanford University Stanford, CA (USA) Sep 2015 – present  
Graduate research assistant in the Mobisocial Computing Lab, working on the Almond virtual assistant project. As part of this project he developed the Thingpedia open API platform, and a novel neural semantic parser optimized for if-then compound statements. He also helped collecting the Almond dataset.
- Google Sunnyvale, CA (USA) Jun 2018 – Sep 2018  
Software engineering intern in research, working on improving end-to-end trainable automated dialog agents
- Microsoft Redmond, WA (USA) Jun 2015 – Sep 2015  
Software engineering intern, working in the Office Graphics team on SVG image support
- Red Hat Brno (CZ) Jul 2013 – Sep 2013  
Software developer intern, working on multi-monitor compositor support for GNOME
- GNOME Foundation 2011 – 2015  
Software developer and maintainer for various user-facing components (including the GNOME Shell and the GNOME Weather application) of this GNU/Linux desktop
- International Olympiads in Informatics Sirmione (IT) Sep 2012  
Member of the Host Scientific Committee, reviewing problem sets and preparing official solutions
- Italian National Olympiads in Informatics Volterra (IT) 2011 – 2014  
Instructor for the Italian national team, teaching problem solution techniques (dynamic programming, search algorithms, graph theory), as well as the C++ language and standard library, in 4 week-long sessions per year
- Google Summer of Code Summer 2014  
Mentor for the GNOME Foundation with a student who was working on a frontend/UX project

## Publications

- “Controlling Fine-Grain Sharing in Natural Language with a Virtual Assistant”, G.C., Silei Xu, Rakesh Ramesh, Michael Fischer, and Monica S. Lam. In *Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies (IMWUT)*, volume 2, issue 3 (2018).
- “Brassau: Automatically Generating Graphical User Interfaces for Virtual Assistants”, Michael Fischer, G.C., Silei Xu, and Monica S. Lam. In *Proceedings of the 20th International Conference on Human-Computer Interaction with Mobile Devices and Services (MobileHCI 2018)*.
- “Almond: The Architecture of an Open, Crowdsourced, Privacy-Preserving, Programmable Virtual Assistant”, G.C., Rakesh Ramesh, Silei Xu, Michael Fisher, and Monica S. Lam. In *Proceedings of the 26th International World Wide Web Conference 2017*, Perth, Australia, 2017
- “Efficient communication and collection with compact normal forms”, Edward Z. Yang, G.C., Ömer S. Ağacan, Ahmed El-Hassany, Abhishek Kulkarni, and Ryan R. Newton. In *Proceedings of the 20th ACM SIGPLAN International Conference on Functional Programming*. Vancouver (BC), 2015

## Prizes and Acknowledgments

- Siebel Foundation Scholar, class of 2016
- Participant at the International Olympiads in Informatics (high school programming and algorithm design contest) (Thailand, 2011)
- “Prize for the study of mathematics and informatics in high schools” by Banca d’Italia (2011)