

# CAROLINA FUENTES T.

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<https://cfuentest.wordpress.com/>

## EDUCATION

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- Ph.D.**      **Computer Science & Human Computer Interaction, Pontifical Catholic University of Chile (2017).**
- M.S**        **Computer Science, Pontifical Catholic University of Chile (2015)**
- B.S**        **Computer Science, University of Santiago of Chile (2005).** Minor : Scientific Computing Analyst.

## ACADEMIC APPOINTMENTS

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- 2017      University of Nottingham, Nottingham, UK., Post-Doctoral Research, Mixed Reality Lab.
- 2016      Andrés Bello University, Santiago, Chile. Lecturer, Engineer and Software requirements.
- 2014      Finis Terrae University, Santiago, Chile. Teaching Assistant, Advanced Programming, Python. (Fall)
- 2013      Catholic University of Chile, Teaching Assistant, Introduction to Programming, Python. (Fall & Spring)
- 2013      Catholic University of Chile, Teaching Assistant, Introduction to Programming, Java. (Summer)
- 2012      Catholic University of Chile, Teaching Assistant, Introduction to Programming, Java. (Fall)

## RESEARCH EXPERIENCE

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- 2017      **Mixed Reality Lab**, Research Associate, School of Computer Science at University of Nottingham. Project “Future Everyday Interaction with the Autonomous Internet of Things”. Project funded by EPSRC.
- 2016      **Microsoft Research**, FuseLabs, Graduate Research Assistant Pontifical Catholic University of Chile project “Volunteer Economy: a sharing economy for informal caregivers in Chile”. Project funded by FuseLabs MRS.
- 2015      **HumaLab Research Group**, “Social network used by informal caregivers”.
- 2014      **Microsoft Research**, Research Intern, Sensing and Energy Group. Develop and design of ontologies of objects in a context of use.
- 2013      **Laccir Microsoft Research**, Graduate Research Assistant, project “Mobile and Tangible Computing for the remote monitoring of emotional states in palliative care caregivers”. Project funded by Laccir Microsoft Research.
- 2013      **NIC Chile Research Lab**, User Center Design Group, Research Assistant.

## AWARDS

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- 2014      **Microsoft Research** Latin America Fellowship.  
Full funding (tuition, fees and travel) for two academic years, awarded to 1% of applicants of Latin America graduate students.
- 2013      **Google** Scholarship  
\$2,000 scholarship plus travel funding to attend the Google Scholars Retreat, awarded to 12 Computer Science student in Latin American.
- 2013      Graduate Research Fellowship, National Commission for Scientific and Technological Research of Chile (Conicyt). Full funding(tuition and stipend) for four years, awarded to 20% of applicants.
- 2012      Tuition Scholarship, 2012, Catholic University of Chile.

## PROFESSIONAL EXPERIENCE

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- 2012-2007 Latin Telecomunicaciones S.A, Project Manager R&D  
Coordination of multidisciplinary teams for projects in R&D.  
Lead Telepresence Kiosk Project, to integrate HD videoconferencing system to support customers in retail, including Project management, resource management, team coordination, customer interaction, participation in the analysis, development, architecture definition, solution modeling and integration of components.  
Lead internal platform develop, monitoring network equipment and technological applications.  
Polycom Arena program in charge.  
Managing software projects aimed at developing new products and business critical applications.
- 2007- 2005 Latin Telecomunicaciones S.A, Software Engineering and Developer  
Support, administration and development of corporate ERP environments for SAP Business One.  
Training on SAP Business One environment  
Design, in-house requirements analysis, software development and programming for internal platforms.

## TRAINING & PROFESSIONAL DEVELOPMENT

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- 2017 Preparing to Teach in Higher Education Certificate, University of Nottingham.
- 2013 Training to develop clinical interviewing skills, required training by ethical committee to interview Informal Caregivers of center of Cancer, Catholic University of Chile.
- 2007 Certificate IT project management, University of Chile.
- 2006 VSG Video Solutions Sales Training Course and Exam.  
Voice over IP (VoIP) and VSG Pre-Sales Technical Training Course and Exam.

## TECHNICAL SKILLS

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UX Research : Usability Lab Studies, Focus Groups, Participatory Design, Diary Studies, Interaction Design, Prototyping.  
UX Tools : Balsamiq , Axure, Omnigraffle, Storyboarding tools..  
Experience with programming languages: Javascript(proficient), Java(proficient), Python (expert), C++ (proficient), C# (proficient).  
Experience development IDE: WebStorm, Eclipse, visual studio, Android Studio, Arduino IDE.  
Experience developing mobile applications: Android(proficient), iOS(prior experience).  
Experience web applications: LAMP and MEAN(prior experience) architecture.  
Qualitative data analysis methodologies and software Atlas Ti.

## PUBLICATIONS & PRESENTATIONS

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### Journal Articles

- 2018 Abarca, E., Campos, S., Herskovic, V., & **Fuentes, C.** (2018). Perceptions on technology for volunteer respite care for bedridden elders in Chile. International journal of qualitative studies on health and well-being, 13(1), 1422663.
- 2017 Rodríguez, I, Herskovic V, Gereá C, **Fuentes C**, Rossel PO, Marques M, Campos M. Understanding Monitoring Technologies for Adults with Pain: Systematic Literature Review Journal of Medical Internet Research 2017;19(10)
- 2017 **Fuentes, C.**, Herskovic, V., Rodríguez, I., Gereá, C., Marques, M., & Rossel, P. Systematic Literature Review about Technologies for self-reporting emotional information. Journal of Ambient Intelligence and Humanized Computing. 2017 Aug 1;8(4):593-606.

- 2014 **Fuentes, C.**, Hernandez, C., Escobedo, L., Herskovic, V., & Tentori, M. Promoting self-reflection of social isolation through persuasive mobile technologies: The case of mother caregivers of children with cancer. *International Journal of Human-Computer Interaction*, 30(10), 802-814.
- 2014 Sandoval, C., **Fuentes, C.**, Montero, C., Bustos, J., & Jordan, M. Towards a mHealth prototype to support integrated health care for elderly in Chilean Patagonia. A Design Case. *Latin America Transactions, IEEE (Revista IEEE America Latina)*, 12(1), 54-61.
- 2013 Herskovic, V., **Fuentes, C.**, Ibarra, R., & Bustos-Jiménez, J. Pick & Drag & Drop: Augmented Reality for Multiple File Sharing. *J. UCS*, 19(8), 1140-1157.

### Peer-Reviewed Conference Papers

- 2017 Fernández M, Rodríguez I, Rossel PO, **Fuentes C**, Herskovic V. InMyDay: A Digital Diary to Promote Self-care Among Elders. *International Conference on Ubiquitous Computing and Ambient Intelligence 2017 Nov 7* (pp. 486-497). Springer, Cham.
- 2017 Rodríguez, I, **Fuentes C**, Herskovic V, Pino JA. Are notifications a challenge for older people?: a study comparing two types of notifications. In *Proceedings of the 50th Hawaii International Conference on System Sciences 2017 Jan 4*.
- 2017 Rodríguez, I, Herskovic V, **Fuentes C**, Campos M. B-ePain: a wearable interface to self-report pain and emotions. In *Proceedings of the 2016 ACM International Joint Conference on Pervasive and Ubiquitous Computing: Adjunct 2016 Sep 12* (pp. 1120-1125). ACM.
- 2016 Rodríguez, I, **Fuentes C**, Herskovic V, Campos M. Monitoring Chronic Pain: Comparing Wearable and Mobile Interfaces. In *Ubiquitous Computing and Ambient Intelligence: 10th International Conference, UCAmI 2016, San Bartolomé de Tirajana, Gran Canaria, Spain, November 29–December 2, 2016, Proceedings, Part I 10 2016* (pp. 234-245). Springer International Publishing.
- 2016 **Fuentes, C.**, Rodríguez, I., Herskovic, V. Making frequency of communication tangible. How green is my tree?. In *Proceedings of the TEI'16: Tenth International Conference on Tangible, Embedded, and Embodied Interaction*, pp. 434-440. ACM, 2016.
- 2015 **Fuentes, C.**, Gereá, C., Herskovic, V., Marques, M., Rodríguez, I., & Rossel, P. O. User Interfaces for Self-reporting Emotions: A Systematic Literature Review. In *Ubiquitous Computing and Ambient Intelligence. Sensing, Processing, and Using Environmental Information* (pp. 321-333). Springer International Publishing.
- 2015 **Fuentes, C.**, Rodríguez, I., & Herskovic, V. EmoBall: A Study on a Tangible Interface to Self-report Emotional Information Considering Digital Competences. In *Ambient Intelligence for Health* (pp. 189-200). Springer International Publishing.
- 2014 **Fuentes C**, Hernandez C, Escobedo L, Herskovic V, Tentori M. Promoting self-reflection of social isolation through persuasive mobile technologies: The case of mother caregivers of children with cancer. *International Journal of Human-Computer Interaction*. 2014 Oct 3;30(10):802-14.
- 2013 **Fuentes, C.**, Herskovic, V., Heysen, J., & Tentori, M. Towards a technology for caregivers' emotional expression and self-reflection. In *Ubiquitous Computing and Ambient Intelligence. Context-Awareness and Context-Driven Interaction* (pp. 143-150). Springer International Publishing.

### Conference Presentations, Workshops, Demos, & Other Formats

- 2017 Presentation: Human Computer Interfaces to express and share emotional information, Aalto University, Helsinki, Finland.
- 2017 Demo presentation: Internet of things project, NIHR Nottingham Biomedical Research Centre, Technology Showcase.
- 2017 Tapia Conference 2017, Panel: "What No One Ever Told You About You About Searching for a Post-Grad School Job", Atlanta.
- 2016 Demo presentation: *EmoTree* prototype at conference TEI'16, Eindhoven, Netherlands.
- 2016 Studio-Workshop: Tangible data, exploration in data physicalization., TEI'16, Eindhoven, Netherlands.
- 2013 Doctoral Colloquium at conference UcamI 2013, Costa Rica.

- 2013 “Human-computer interfaces to express and share emotional information in caregivers”. Doctoral Consortium of SADUE13 Workshop.
- 2013 Poster presentation: Google Scholar Retreat 2013, “Towards a technology for caregivers: Ohana System”, NYC.
- 2012 Presentation at UXwIT workshop “Guidelines for Urban Search and Rescue Interface Design based on a Study of User Interaction”, Chilean Conference of Computer Science, November 2012, Valparaíso, Chile.
- 2012 “Panel Women in Computer Science”: Chilean Conference of Computer Science, November 2012, Valparaíso, Chile.
- 2009 Polycom User Group annual conference 2008 : “Video Conferencing Kiosk”, Orlando , Florida.
- 2008 Cio 100 Symposium & Award 2009: “Telepresence Kiosk”, Colorado Springs, Colorado.

## SERVICE

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### **Conference Organizing and Volunteering**

- 2016-2017 Student Volunteer Co-Chair, ACM CSCW
- 2015 Student Volunteer, ACM CSCW
- 2014 Scientific adviser at IX School Congress of Science and Technology EXPLORA from National Commission for Scientific and Technological Research of Chile (Conicyt).

### **Reviewing**

- 2018-2017 CHI ACM Conference.
- 2017 Mobile HCI ACM Conference, Journal of Computer in Human Behavior.
- 2015 TEI : ACM International conference on Tangible, Embedded and Embodied Interaction.
- 2014 Latinity : Latin American women in technology.
- 2013 Chilean Conference on Human - Computer Interaction.

### **Outreach**

- 2017 Participating in activities related with woman in computer science and STEM careers. Women in Tech Nottingham and Women in Computer Science, Chile.
- 2014 Organizing a “Summer School of programming for girls”, Catholic University of Chile.
- 2001-2004 Volunteering teaching computer/math, Hospital’s School for kids with chronically illness, Fundación Nuestros Hijos, Santiago, Chile.

## LANGUAGES

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Spanish: Native    English: Advanced    Portuguese : Basic