

# Raymundo Cornejo García

## Contact Information

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## Biography

I am a postdoctoral fellow at the department of Communication Studies at Northwestern University, in Evanston IL. As a part of my doctoral dissertation, I lead the design, development and deployment study of several ambient social prototypes to connect older adults with their families. I am interested in investigating how novel technology impacts family ambient awareness, perceived identity, off-line encounters, wellness and isolation. I believe that the accessibility and proliferation of SNSs with the design of ambient displays provides older adults with new opportunities to interact with their relatives and friends. Furthermore, through social media older adults can strengthen their social network and its quality, contributing to their health and wellbeing. Currently, my research efforts are focused on bridging the intergenerational technology gap and support older adults who had disabilities. My research interests include Human-Computer Interaction, Ubiquitous Computing and Computer Supported Cooperative Work. My overall research goal is to understand how augmented technology empowers everyday human activities with special emphasis on the elderly and those with disabilities. I received a degree in computer and information systems engineering from the Instituto Tecnológico de La Paz, and a M.Sc. and Ph.D. in computer science from CICESE, México. Also, I received training on how to conduct interviews and apply geriatric instruments to older adults.

## Education

### **Ph.D. in Computer Science – 2014**

Thesis: Strengthening elder's social networks through ambient information systems and SNS  
Advisors: Jesús Favela and Mónica Tentori  
Department of Computer Science  
Centro de Investigación Científica y de Educación Superior de Ensenada (CICESE)

### **M.S. in Computer Science - 2009**

Thesis: Affective ambient displays to strength emotional ties between older adults and their relatives  
Advisors: Jesús Favela and Mónica Tentori  
Department of Computer Science  
Centro de Investigación Científica y de Educación Superior de Ensenada (CICESE)

### **B.E. in Computer and Information Systems Engineering – 2006**

Instituto Tecnológico de La Paz (ITLP)

## Research visit

**Ubihealth project**, UCLIC department, London United Kingdom (2013).

## Book chapters

Favela, J. **R. Cornejo**, A. Velazquez, A. I. Martinez, L.A. Castro, M. Tentori (2013). "Nuevas tecnologías de información y comunicación en apoyo a un envejecimiento activo y saludable". En Libro de envejecimiento saludable y productivo

## Journal publications (peer-reviewed)

Muñoz, D., **Cornejo, R.**, Gutierrez, F. J., Favela, J., Ochoa, S. F., & Tentori, M., (2014). A social cloud-based tool to deal with time and media mismatch of intergenerational family communication. *Future Generation Computer Systems*(0). doi: <http://dx.doi.org/10.1016/j.future.2014.07.003>

**Cornejo, R.**, M. Tentori, et al. (2013). "Enriching in-person encounters through social media: A study on family connectedness for the elderly." *International Journal of Human-Computer Studies*(0). <http://dx.doi.org/10.1016/j.ijhcs.2013.04.001>

**Cornejo, R.**, Tentori, M., Favela, J., (2012). Ambient Awareness to Strengthen the Family Social Network of Older Adults. *Computer Supported Cooperative Work (CSCW)*, 36 pp. <http://dx.doi.org/10.1007/s10606-012-9166-2>

## Conference papers (peer-reviewed)

**Cornejo, R.**, Hernandez, D., Tentori, M., & Favela, J. (2014). An Ambient Casual Game to Promote Socialization and Active Ageing. In N. Baloiian, F. Burstein, H. Ogata, F. Santoro & G. Zurita (Eds.), *Collaboration and Technology* (Vol. 8658, pp. 75-88): Springer International Publishing.

D. Muñoz, **R. Cornejo**, S. F. Ochoa, J. Favela, F. Gutierrez and M. Tentori (2013). "Aligning intergenerational communication patterns and rhythms in the age of social media". In Proc. of the Chilean Conference on Human-Computer Interaction. Temuco, Chile. Nov 11-15, 2013

**Cornejo, R.**, Tentori, M. and Favela, J. (2010) Ambient Displays for Integrating Older Adults into Social Networking Sites. 16th Collaboration Researchers' International Workshop in Groupware Maastricht, The Netherlands, LNCS 6257 Springer. September 20-23, pp. 321-336.

## Workshop papers (peer-reviewed)

Brewer, R., **Cornejo, R.**, and Piper, A. (2015). Understanding How to Care for Aging Generations Online. Accepted in 2015 CSCW workshop The Future Of Networked Privacy: Challenges And Opportunities. Vancouver, BC.

**Cornejo, R.**, M. Tentori, et al. (2012). Enriching family personal encounters with ambient social media. Proceedings of the 2012 ACM Conference on Ubiquitous Computing. Pittsburgh, Pennsylvania, ACM: 792-793.

**Cornejo, R.**, Hernández, D., Favela, J. and Tentori, M (2012) "Persuading older adults to socialize and exercise through ambient games" In Workshop of Wellness and HCI, PervasiveHealth 2012, San Diego California, May 21-24, 2012

Tentori, M., **Cornejo, R.** and Favela, J. (2010) "Sentient displays to connect elders with cognitive disabilities to the digital era of social interaction". In Proceedings of WISH at CHI, Atlanta, GA, April, 5-10, 45-49pp

## Posters

**Cornejo, R.**, Tentori, M. y Favela, J. (2011). Will you still friend me ... when I'm sixty-four?: Integrating Older adults in Social Networking Sites. Ubiquitous Computing Uniting the Californias, March, 3-5, Ensenada, Mexico

**Cornejo R.**, Tentori, M. y Favela, J. (2011). Technologies for Home Health. In ExpoCICESE – Posters, Ensenada, México, November 3-4.

**Cornejo, R.**, Tentori, M.y Favela, J. (2010) Inteligencia Ambiental para Fortalecer Las Redes Sociales de Los Adultos Mayores. In “Encuentro Nacional sobre Envejecimiento y Salud” - Poster. México D.F. August 25-28.

Poster presentation at the Mexican Conference on Aging and Health.

**Cornejo, R.**, Tentori, M.y Favela, J. (2009) Integrating Elders into Virtual Social Networks through Ambient Displays. In HCI International - Posters, San Diego, California, USA. Springer. July 19-24

## Awards

Conacyt postdoctoral fellowship: 235071 (2014-present)

**Runner-up** on Activity Design Contest (2011). ElderActivityShare. Ubiquitous computing research group at the University of Toronto

<http://www.dgp.toronto.edu/~dearman/contest/index.html>

Conacyt1 doctoral fellowship: 212619 (2010-2014)

Conacyt master fellowship: 212619 (2007-2009)

Award for having obtained the highest GPA, 95.75/100 (2002-2006). In Computer and Information Systems Engineering at Instituto Tecnológico de La Paz

Dean’s List Award, Grade Point Average 3.54/4 (2001-2002). In Computer Information Systems at Valley City State University

## Doctoral Consortia

**Cornejo, R.** (2010). Strengthening Elder’s Social Networks through Ambient Information Systems and SNS. CSCW 2010. Savannah, GA, USA

**Cornejo, R.** (2010). Integrating Older Adults into Social Networking Sites through Ambient Intelligence. Accepted in GROUP 2010. Sanibel Island, Florida, USA.

## Invited talks

**Cornejo, R.** “Ambient Intelligence to strengthen older adults’ social networks: the ePortrait”, Instituto de Geriatria, México Distrito Federal, 2010.

[http://www.geriatria.salud.gob.mx/interior/sesion\\_18\\_febrero.html](http://www.geriatria.salud.gob.mx/interior/sesion_18_febrero.html)

Talk adults at the Geriatrics Institute with geriatric researchers about my ongoing doctoral research and its impacts on older adults. This institute aims to coordinate and promote strategic research on the process of aging and its implications.

## Academic visits

Academic visit to the Epidemiological Research Unit and Health Services at National Medical Center SXXI, México Distrito Federal, 2010.

Practical training on how to interview older adults.

Practical training on applying geriatric instruments to independent older adults.

Academic visit to University of California, Irvine, 2010

Academic visit to the ubiquitous lab of Professor Gillian Hayes.

Two semester in Computer Information Systems at Valley City State University, Valley City, North Dakota, U.S.A., 2001- 2002

## Service

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<sup>1</sup> Consejo Nacional de Ciencia y Tecnología (CONACYT) is the Mexican federal agency equivalent to the National Science Foundation

### **Conference management**

Publicity liaison, MexIHC: Mexican Conference on Human Computer Interaction (2012)

### **Reviewer**

CHI: ACM SIGCHI Conference on Human Factors in Computing Systems (2015)

MEXIHC: Mexican Conference on Human Computer Interaction (2014)

CHI: ACM SIGCHI Conference on Human Factors in Computing Systems (2014)

ACM International Conference on Ubiquitous Computing (2014)

International Journal of Human Computer Studies (2014)

Journal of Ambient Intelligence and Smart Environments - Thematic Issue on Designing and Deploying Intelligent Environments (2013)

CHI: ACM SIGCHI Conference on Human Factors in Computing Systems (2013)

International Conference on Pervasive Computing Technologies for Healthcare (2012)

ACM International Conference on Ubiquitous Computing (2012)

CHI: ACM SIGCHI Conference on Human Factors in Computing Systems (2012)

CSCW Journal, The Journal of Computer Supported Cooperative Work. Special Issue on differentiated awareness-support (2011)

ICH+CLIHC, Latin American Conference on Human Computer Interaction (2011)

MEXIHC, Mexican Conference on Human-Computer Interaction (2010)

### **Student Volunteer**

Ubicomp: The 14th International Conference on Ubiquitous Computing, Pittsburgh, PA, USA (2012).

CSCW: The ACM Conference on Computer Supported, Savanna, Georgia (2010).

HCI International, San Diego, CA (2009).

## **Professional experience**

**Teacher**, graduate level (2013).

Object-oriented analysis class.

Computer Science Department.

Centro de Investigación Científica y de Educación Superior de Ensenada (CICESE)

**Teacher Assistant**, graduate level (2011)

Object-oriented analysis class.

Computer Science Department.

Centro de Investigación Científica y de Educación Superior de Ensenada (CICESE)

**Teacher Assistant**, graduate level (2010).

Object-oriented analysis class.

Computer Science Department.

Centro de Investigación Científica y de Educación Superior de Ensenada (CICESE)

**Web developer** (2009)

FASIL Company

**Programmer and design analyst (2007)**  
Univisit Company,

**Web developer (2007)**  
Insituto Tecnológico de La Paz Website

## **Skills and Qualifications**

Spanish as native language  
Fluid English

TOEFL IPT: 603

Programming skills in C#, VB, PHP, ASP.NET, Python, and JAVA

Hardware skills in Arduino open hardware

Analysis ability in modeling with UML

Database management: SQL Server and MySQL

## **Media Coverage**

Urban jokes, a new way of socialization.

<http://www.fronteraensenda.info/EdicionEnLinea/Notas/Noticias/06032014/816881-Presentan-caja-de-chistes-en-Cicese.html>

“Cibersalud: una solución latente – Cyber health: a latent solution”. Todos@CICESE, August 25, 2011.

[http://gaceta2.cicese.mx/index.php?option=com\\_content&view=article&id=162%3Acibersalud&catid=3%3Aciencia-y-tecnologia&Itemid=1](http://gaceta2.cicese.mx/index.php?option=com_content&view=article&id=162%3Acibersalud&catid=3%3Aciencia-y-tecnologia&Itemid=1)

“Crean un Facebook para los abuelitos – A facebook for the elderly”. La-Ch.com, September 6, 2011. [http://www.la-ch.com/index.php?option=com\\_content&view=article&id=9592:crean-un-facebook-para-los-abuelitos&catid=42:general&Itemid=62](http://www.la-ch.com/index.php?option=com_content&view=article&id=9592:crean-un-facebook-para-los-abuelitos&catid=42:general&Itemid=62)

“Desarrollan ciencia a favor de los ancianos – Developing science for the elderly”. El Mexicano 2008

## **Other interests**

Captain of the computer science department's basketball team

Co-captain of the computer science department's soccer team

Co-captain of the students research institute's football flag team

