PRISCILLA JIMENEZ, Ph.D.

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My research in Human-Centered Computing (HCC) focuses on designing innovative technologies that enhance informal learning environments, support learning and professional development, and facilitate collaborative experiences. I adopt a human-centered approach to design, prioritizing the needs, contexts, and values of users. This enables the development of technological solutions that not only address user requirements but also promote equity and foster engagement, all grounded in empirical research, participatory design methodologies, and the integration of data mining and machine learning techniques.

EDUCATION

PhD in Computer Science   **2017**
University of Illinois at Chicago
Dissertation: Engaging Emerging Professionals in Design: Devising Mobile Supports for Explainers at STEM Museums

Master of Science in Computer Science   **2010**
University of Illinois at Chicago – (Fulbright Scholar)
M.S. Thesis: Studying Different Methods of Providing Input to Collaborative Museum Exhibit using Mobile Devices

Engineer in Computing Specialization Technology Systems   **2005**
Escuela Superior Politécnica del Litoral. (ESPOL) – GYE, Ecuador (Top 1 Engineering program in Ecuador)
Thesis: "Sistema Computarizado de Comunicación y Control de Ingreso a Oficinas" (Computer- Based Communication and Office Access Control System)

WORK EXPERIENCE

Assistant Professor at University of St. Thomas (MN, USA)   **August 2024-Present**
- Tenure-track faculty member in the Computer and Information Sciences Department.
- Designed courses: Object-Oriented Design and Programming, Human-Computer Interaction, Senior Capstone.

Visiting Assistant Professor at Grinnell College (IA, USA)   **August 2021 – July 2024**
- Course instructor: Functional Problem Solving, Algorithms and Object-Oriented Design, Software Design and Development, Software Development Leadership, Special Topic in HCI: Applying Human-Computer Interaction Methods to Design for Societal Impact.
- Innovation Seed Project (Awarded) in collaboration with Prof. Fernanda Eliott. Title: Ethical Design, Empathy Building and Team Spirit in Software Design and Development Classes.
- Led a collaborative service project (Awarded) – Empowering Women Affected by Immigration Crisis to Boost Their Economy Via Entrepreneurship Education. Sponsored by Wilson Center for Innovation and Leadership and the Institute for Global Engagement.

Adjunct Professor at Escuela Politécnica Nacional (UIO, EC)   **September 2019 – May 2021**
- Undergraduate course instructor: C/C++ Programming, Event-driven programming (including topics of software engineering), Introduction to research tools, and Introduction to Programming with Python.
- Graduate course instructor: Research Methods
- Workshops for faculty: Fundamentals of Object-Oriented Programming, Introduction to Python, Study Methods.
- Supervised students on their final degree project.

- Monitored and mentored undergraduate students at all levels.
- Served and supported functional activities of departmental committees: evaluation of program accreditation readiness, and community outreach projects.
- Collaborated writing proposals for R&D projects.

Postdoctoral Research Associate at University of Notre Dame (IN, USA).   **August 2017 – June 2019**
- Performed collaborative network analysis of knowledge management system usage in an enterprise environment.
- Led and collaborated on writing research papers.
- Collaborated with a multidisciplinary group of data science researchers and led efforts to explore knowledge management systems.
- Designed and developed a progressive website (using flask framework and CouchDB) to support collection of data for health care applications.
- Supervised undergraduate and graduate students.

Research Visitor at University of Notre Dame (IN, USA).   **Summer 2017**
- Performed quantitative and qualitative analysis of survey data for a research study
- Led and collaborated on writing research papers
- Collaborated with a multidisciplinary group of data science researchers and led efforts to explore knowledge management systems

Teaching Assistant at University of Illinois – Chicago (IL, USA).   **Fall 2014, AY 2015-2016, AY 2016-2017**
Teaching Assistant: C/C++ Programming for Engineers with MATLAB, Software Engineering I
- Grade assignments/exams and hold Lab hours for the C/C++ Programming for Engineers with MATLAB course
- Hold office hours and tutor students as needed
- Graded development projects and reports/system documentation for the Software Engineering I course

Adjunct Lecturer at Lewis University (IL, USA).   **Fall 2016**
Instructor for Data Visualization graduate course

Intern at IBM – Almaden Research Center (CA, USA).   **Summer Internship 2012, 2013, 2015**
- Developed mobile demo (for iPhone using Swift) and content-based recommendation system to support business travel solutions. Worked with the Storage and Cloud Services research group.
- Contributed along with technical scientists to develop software/application patent. Worked with the Storage and Cloud Services research group. The invention relates to context-oriented assessment for travel companionship by using an associated weight to prioritize travel search.
- Developed a web-based simulation (using the IBM Worklight studio) to support a demonstration of a Set Cover Tracing Technology/Algorithm (SCoTT). Worked with the Content Protection research group. In the simulation, the user chooses the attackers, and the simulation would run the algorithm and visualize how the attackers are discovered.
- Developed another version of SCoTT implemented on mobile devices by changing the user's engagement model; therefore, part of the back-end code where mobile devices represent different attackers in the ecosystem. This action would be hidden from other viewers. A web-based visualization would display how the algorithm discovered the attackers. Worked with the Content Protection research group.
- Contributed along with technical scientists and IP lawyers to develop potential software/application patents. Worked with the Content Protection research group. The invention relates to the use of social media to allow groups to attend live events using smart transportation and planning.
- Explored designing effective end-user interactions for collaborative environments. Worked with the Content Protection research group.

Research Assistant at University of Illinois – Chicago (IL, USA).   2010 - 2013
- Designed and developed a tablet app to support museum educators in their interpretation tasks (by supporting their manipulation of multimedia exhibit content, and helping them engage visitors)
- Performed rapid prototyping using Axure prototyping tool
- Developed the interaction and functionality for a full-body interactive computer-based zoo exhibit. The input data was translated from input visitor's motion data, and I developed and evaluated 3 different methods of capturing visitor movements: using accelerometer readings from iPods, Arduino sensors, and Kinect cameras.
- Performed field observation studies and participatory design studies with teenager/novices and expert docents in the Brookfield Zoo
- Analyzing video data and audio recordings for a research study
- Led and collaborated on writing research papers.
- Collaborated with a multidisciplinary group of urban planning researchers and led efforts to explore different information visualization systems to analyze data on group interactions and engagement in an urban planning learning environment

System Administrator at Almacén de Rulimanes Salvatierra C.A. (GYE, EC).   July 2005 - July 2008
- Designed and developed an information system (C#, SQL Server, Crystal Reports). It included a financial module, accounting module, inventory control module, and sales module.
- Administrated the Network (Domain server: SQL Server 2003, Mail & proxy server: CentOS - Linux)
- Designed, implemented, and maintained the database
- Performed installation and upgrades of hardware-software in desktops/servers
- Performed essential desktop/server troubleshooting and technical support to users
- Designed information security policy
- Trained end users in the use of new information system

Teaching Assistant at Escuela Superior Politécnica del Litoral – (GYE, EC).   AY 2000-2001, AY 2001-2002
Teaching Assistant: Calculus III (Institute of Mathematical Sciences)
- Graded assignments/exams and hold hours of instruction time for the Calculus III course.

PUBLICATIONS

Peer-Reviewed Journals & Conferences, Full papers

1. Garcia Plua, J.C., Figueroa, X., Vaca, C., Orozco, D., Baquerizo-Neira, M., **Jimenez-Pazmino, P.,** Orellana Fantoni, C. Identifying citizen interests during the COVID-19 pandemic using context change in Twitter conversations. In Proceedings of 10th International Conference on eDemocracy & eGovernment. (June 2024)
2. Rivera, R., Orellana Fantoni, C., Gálvez, E., **Jimenez-Pazmino, P**., Vaca Ruiz, C., and Fitz Herbert, A. Using Scientometrics to Mapping Latin American Research Networks in Emerging Fields: the Field Networking Index. Scientometrics. (2024).
3. Marshall, J., **Jiménez-Pazmino, P.,** Metoyer, R., y Chawla, N. (2022). A Survey on Healthy Food Decision Influences Through Technological Innovations. ACM Trans. Comput. Healthcare 3, 2, Article 25 (April 2022).
4. **Jimenez-Pazmino, P.,** Ford, T., Metoyer, R., y Chawla, N. (2020) Identifying Bridge Users: The Knowledge Transfer Agents in Enterprise Collaboration Systems. Proceedings of the 53rd Hawaii International Conference on System Sciences. (HICSS 2020).
5. Faust, L., **Jimenez-Pazmino, P.,** James K. Holland, Lizardo, O., Hachen, D., and Chawla, N. V. (2019). What 30 Days Tells Us About 3 Years: Identifying Early Signs of User Abandonment and Non-Adherence. Proceedings 13th EAI International Conference on Pervasive Computing Technologies for Healthcare (PervasiveHealth 2019).
6. **Jimenez Pazmino, P.,** Lyons, L., Slattery, B., Hunt, B. (2016). Exploring Computer-Supported Professional Development for Novice Museum and Zoo Professionals. In Proceedings of the ACM International Conference on Supporting Group Work (GROUP 2016). Sanibel, FL.

7. **Jimenez Pazmino, P.**, Slattery, B., Lyons, L., & Hunt, B. (2015). Designing for Youth Interpreter Professional Development: A Sociotechnologically-framed Participatory Design Approach. In Proceedings of the 14th international conference on Interaction Design & Children (IDC 2015). Boston, MA.
8. Slattery, B., Lyons, L., & **Jimenez Pazmino, P**. (2015). Designing Mobile Support Technology for Zoo Interpreters. In Proceedings of the 19th annual conference of Museums and the Web (MW 2015). Chicago, IL.
9. Slattery, B., Lyons, L., **Jimenez Pazmino, P.**, Lopez Silva, B., & Moher, T. (2014). How Interpreters Make Use of Technological Supports in an Interactive Zoo Exhibit. In Proceedings of the International Conference of the Learning Sciences (ICLS 2014).
10. Lyons, L., Lopez Silva, B., Moher, T., **Jimenez Pazmino, P.**, & Slattery, B. (2013). Feel the burn: Exploring Design Parameters for Effortful Interaction for Educational Games. In Proceedings of the 2013 conference for Interaction Design and Children (IDC 2013). New York, NY.
11. Lyons, L., Slattery, B., **Jimenez, P.**, Lopez, B., & Moher, T. (2012). Don't Forget About the Sweat: Effortful Embodied Interaction in Support of Learning. In Proceedings of the 6th international conference on Tangible, Embedded, and Embodied Interaction (TEI 2012). Kingston, ON, Canada.
12. **Jimenez Pazmino, P.**, and Lyons, L. (2011). An Exploratory Study of Input Modalities for Mobile Devices Used with Museum Exhibits. In Proceedings of the SIGCHI Conference on Human Factors in Computing Systems, (CHI 2011) pp. 895-904. ACM, 2011.

Peer-Reviewed Conferences, Short papers & Extended Abstract
1. **Jimenez Pazmino, P.**, Lyons, L., Slattery, B. (2017). Framing the Design Space for Mobile Facilitation Tools in Exhibit Settings. CSCL 2017 Conference Proceedings.
2. **Jimenez Pazmino, P.**, Lyons, L., Slattery, B. (2016). Outlining the Design Goals and Challenges for Mobile Support for Exhibit Interpretation. Extended Abstract at Tapia Conference 2016. *3rd place winner in Graduate Research Competition.*
3. **Jimenez Pazmino, P.**, Lyons, L., Slattery, B. (2016). Reflecting on Expertise, a Key Factor When Designing for Professional Development in Informal Science Institutions. In Proceedings of the International Conference on Human-Computer Interaction (HCII 2016). Toronto, CA.
4. Slattery, B., Lyons, L., & **Jimenez Pazmino, P**. Designing a Tablet Support Tool for Interpreters. In Proceedings of the Conference on Visitors Studies Association (VSA 2014).
5. Slattery, B., Lyons, L., Lopez Silva, B., & **Jimenez Pazmino, P.** (2013). Extending the Reach of Embodied Interaction in Informal Spaces. In Proceedings of the 10th international conference on Computer Supported Collaborative Learning (CSCL 2013).
6. **Jimenez Pazmino, P.**, Lopez Silva, B., Slattery, B., & Lyons, L. (2013). Teachable Mo[bil]ment: Capitalizing on Teachable Moments with Mobile Technology in Zoos. In Proceedings of the Extended abstracts of the 2013 Conference on Human Factors in Computing Systems (CHI EA 2013). Paris, France.
7. **Jimenez, P.**, & Lyons, L. (2010). Studying Different Methods of Providing Input to Collaborative Interactive Museum Exhibit Using Mobile Devices. In Proceedings of the Wireless, Mobile and Ubiquitous Technologies in Education (WMUTE 2010), 6th IEEE International Conference on (pp. 225-227). IEEE.

Other Publications
1. Sinche, F., Jimenez Pazmino, P., Läufer, K., (Sept 2023) New technologies as decision aids for the advancement of the ecological risk assessment. Integrated Environmental Assessment and Management Editorial
2. Lyons, L., **Jimenez Pazmino, P.**, Lopez Silva, B., & Slattery, B. Exhibiting Performances for Data Literacy and Climate Change Education. In T. Moher (Chair), Becoming Reflective: Designing for Reflection on Physical Performances. Symposium conducted at the 11th International Conference of the Learning Sciences (ICLS 2014), Boulder, CO.

PATENTS

| 2020 | Context Oriented Assessment for Travel Companionship |
| | TD Griffin, D Jadav, S Lee, **PFJ Pazmino** - US Patent 10,650,353, 2020 |

| 2018 | Live events attendance smart transportation and planning |
| | **PFJ Pazmino**, DB Ponceleon - US Patent 9,998,420, 2018 |

WORKSHOPS AND OTHER PRESENTATIONS

March 2024	Autograding Java assignments in Gradescope with Jacquard. Ellen Spertus (Northeastern University), Priscilla Jiménez (Grinnell College). SIGCSE 2024.
April 2018	CHI Workshop. Long-term Compliance Habits: What Early Data Tells Us. arXiv preprint arXiv:1804.04256(2018). CHI 2018 Workshop on Next Steps Towards Long Term Self Tracking.
September 2016	Outlining the Design Goals and Challenges for Mobile Support for Exhibit Interpretation. Poster presenter, Tapia 2016 Conference, Austin, TX. *3rd place winner in Graduate Research Competition*
February 2014	Incorporating Second-Screen Experiences to Augment Interpretation in Informal Science Centers. Doctoral Consortium, Tapia 2014 Conference, Seattle, WA
October 2013	A Technological Approach to Support Learning in Informal Learning Centers. Poster presenter at Grace Hopper 2013, Minneapolis, MN
August 2013	A Second Screen Approach to Augment Interpretation with Dynamics Exhibits in Informal Learning Institutions. Doctoral Consortium, MobileHCI 2013, Munich, GE
September 2009	Studying Input Interface Design for Collaborative Interactive Museum Exhibit. Lightning talk. MidWIC 2009, Chicago, IL

OTHER INVITED RESEARCH TALKS

- "Sistemas de Gestión del Conocimiento. Caso: Análisis de Usuarios Claves." – Knowledge Management Systems: Analysis of Key Users. Escuela Politécnica Nacional. XXIX Conference on Electrical and Electronic Engineering. November 2019

TEACHING

Instructor:
University of St. Thomas (MN, USA) – Department of Computer and Information Sciences
- CISC230: Object-Oriented Design and Programming (Fall 2024)
- CISC490: Topics in Human-Computer Interaction (Spring 2025)
- CISC480: Senior Capstone (Spring 2025)

Grinnell College (IA, USA) – Department of Computer Science
- CISC 161: Imperative Problem Solving (Spring 2024)
- CSC 324: Software Design and Development (Spring 2022, Fall 2023, Spring 2024)
- CSC 395: Special Topics Course – Applying Human-Computer Interaction Methods to Design for Societal Impact (Spring 2023)
- CSC 151: Functional Problem Solving (Fall 2021, 2022, Spring 2023)
- CSC 207: Object-Oriented Problem Solving, Data Structures, and Algorithms (Fall 2021, 2022, 2023)
- CSC 326: Software Development Leadership (Spring 2022)

Escuela Politécnica Nacional (Quito, EC)
- C/C++ Programming (Fall 2019, Fall 2020)
- Event-driven programming (Fall 2019, Fall 2020, Spring 2021)
- Introduction to Research Tools (Fall, 2019, Fall 2020, Spring 2021)
- Introduction to Programming with Python (Spring 2021)
- Research Methods (Spring 2021)

Lewis University - Department of Computer and Mathematical Sciences
- Data Visualization for graduate students (Fall 2016)

Invited Teaching:
1. "Virtual Environments for Museums". Art and Technology Department at School of the Art Institute of Chicago. Virtual Reality class. April 2017
2. "The Design of a Museum Exhibit: A Mile in My Paws". Art and Technology Department at School of the Art Institute of Chicago. Virtual Reality class. December 2016

OTHER: SCHOLARSHIPS AND ACADEMIC WORKSHOPS PARTICIPATION

- 2023 CRA-WP Early and Mid-Career Mentoring Workshop.
- SIGCHI Student Travel Grant to present at ACM Conference on Supporting Group Work. November 2016. Full paper presenter.
- Scholarship to present at ACM Richard Tapia Celebration of Diversity in Computing. September 2016. Poster presenter.
- Invitation to participate in the 2016 Academic Career Workshop for Underrepresented participants. Funded by NSF. April 2016.
- Scholarship to present at ACM Richard Tapia Celebration of Diversity in Computing. February 2014. Participation in Doctoral Consortium.
- Scholarship to present at Grace Hopper Conference 2013. Poster presenter.
- Academic scholarship to attend Google I/O 2013. May 2013, San Francisco, CA. Sponsor: Google.
- Invitation to participate in the 2013 Academic Career Workshop for Underrepresented participants. Funded by NSF. April 2013.
- Scholarship to attend ACM Richard Tapia Celebration of Diversity in Computing. February 2013.
- Scholarship to attend Grace Hopper Conference 2012. Sponsor: ACM-W
- Scholarship to attend International Conference on Human-Computer Interaction CHI 2012. Sponsor: ACM-W
- Scholarship to attend Apple Worldwide Developers Conference WWDC 2010. June 2010, San Francisco, CA. Sponsor: Apple Inc.
- UNIV 2008 - "Being, Appearing, and Communicating: Entertainment and Happiness in a Multi-Media Society." (Rome, IT, 15-23 March 2008). Article: "Vidas Paralelas: En la Red No Tengo Defectos". (Parallel Lives: Creating Perfect Personas On-line)

HONORS & AWARDS

Foreign Fulbright Fellowship, 2008-2010

FUNDED PROJECTS

- Funded service project - Empowering Women Entrepreneur in Ecuador (2022-2023). Engaging Grinnell students in the creation of Educational Resources. Project Sponsored by the Wilson Center for Innovation and Leadership, and the Institute for Global Engagement at Grinnell College.
- Mentored Advance Project Summer 2022: "Towards Designing Expert-Centered Knowledge Dashboards: Supporting multidisciplinary research search"
- Innovation Seed Project in collaboration with Prof. Fernanda Eliott (Fall 2021). Title: Ethical Design, Empathy Building and Team Spirit in Software Design and Development Classes.

SERVICE TO ORGANIZATIONS AND PROFESSION

- MINK WIC Organizer Committee Member (2022-present). ACM-W Conference that celebrates women in computing.
- Association for Computing Machinery - Reviewer ACM SIGCHI Conferences:

- o Human Factors in Computing Systems (CHI). Special recognition for outstanding reviews 2023, 2024.
  - o Interaction Design and Children (IDC)
  - o Human-Computer Interaction with Mobile Devices and Services (MobileHCI)
  - o Computer-Supported Cooperative Work and Social Computing (CSCW)
- Postdoc Women Committee board member at ND. AY 2017 – 2019
  - o Co-chair AY 2018-2019
- Women in Computer Science (WiCS) board member organization at UIC. AY 2013 – 2014
  - o Outreach program.

MEMBERSHIPS

- Association for Computing Machinery
  - o Special Interest Group on Computer-Human Interaction (2011-present)
  - o Special Interest Group on Computer Science Education (2022-present)

LANGUAGES

Spanish