

Jordan A. Barriá Pineda

[Google Scholar](#) | [LinkedIn](#) | [Personal Website](#)

80 Juan Enrique Concha St., Apt. 506, Ñuñoa, Santiago, Chile | +56 9 92160883 | jordan.barria@udp.cl

EDUCATION

- | | |
|------------|--|
| 2016-2025 | PHD IN INFORMATION SCIENCE
ADVISOR: Dr. Peter Brusilovsky Co-ADVISOR: Dr. Erin Walker
University of Pittsburgh , Pittsburgh, PA, USA
Thesis: <i>Human-AI Collaboration in Educational Recommender Systems</i> |
| 2009- 2015 | COMPUTER ENGINEER with High Distinction (GPA: 6.35 out of 7.0)
Universidad Austral de Chile , Valdivia, Chile
Thesis: <i>"Users Activity Visualization Tool in a CSCL Environment"</i>
ADVISOR: Dr. Eliana Scheihing
<i>Degrees earned:</i> Bachelor of Engineering Sciences, <i>"Licenciado en Ciencias de la Ingeniería"</i> |

RESEARCH INTERESTS

Adaptive Learning Systems, Human-Centered AI, Human-AI Collaboration, Human Computer Interaction (HCI), Participatory Design, Recommender Systems, Learning Analytics, Information Visualization, Data Science

PUBLICATIONS

Journal Articles indexed by Web of Science

- | | |
|------------|---|
| MAY 2025 | Concept Maps and Open Learner Models in a Computer Networking Course
Jordan Barriá-Pineda , Julio Guerra, Pratibha Menon, Peter Brusilovsky
<i>IEEE Transactions on Education</i> (5-year impact factor: 2.4) |
| MARCH 2022 | Knowledge-Based Design Analytics for Authoring Courses with Smart Learning Content
Laia Albo, Jordan Barriá-Pineda , Peter Brusilovsky, Davinia Hernandez-Leo
<i>International Journal of Artificial Intelligence in Education</i> (5-year impact factor: 4.7) |
| JUNE 2018 | Navigation support in complex open learner models: assessing visual design alternatives
Julio Guerra, Christian D. Schunn, Susan Bull, Jordan Barriá-Pineda , and Peter Brusilovsky
<i>New Review of Hypermedia and Multimedia</i> (5-year impact factor: 1.7) |

Other Publications (Conference/Workshop Proceedings and Other Journals)

- | | |
|------------------------|---|
| JULY 2025
presented | Using Self-Regulated Learning Theory to Inform the Design of EdRecSys for Programming
Jordan Barriá-Pineda , Deniz Sonmez, Kamil Akhuseyinoglu, Erin Walker, Peter Brusilovsky
<i>International Conference on Artificial Intelligence in Education (AIED'25)</i>
Palermo, Italy |
| JULY 2025 | Example Explorers and Persistent Finishers: Exploring Student Practice Behaviors ...
Allison Poh, Anurata Prabha Hridi, Jordan Barriá-Pineda , Peter Brusilovsky and Bitá Akram
<i>9th Educational Data Mining in Computer Science Education (CSEDM) Workshop</i>
<i>co-located with the International Conference on Educational Data Mining (EDM'25)</i>
Palermo, Italy |

- MARCH 2025 [Cuéntame Cuentos: A family dialogic-reading and reminiscing app to support Latino preschoolers literacy skills](#)
Luis Perez-Cortes, Ana Ventura, **Jordan Barria-Pineda**, Erin Walker, Diana Leyva
AERA (American Educational Research Association) Annual Meeting 2025
Denver, USA
- JUNE 2024 [Explanations in Open User Models for Personalized Information Exploration](#)
Rully Agus Hendrawan, Peter Brusilovsky, Arun Balajjee, **Jordan Barria-Pineda**
32nd ACM Conference on User Modeling, Adaptation and Personalization (UMAP Adjunct '24)
Cagliari, Italy
- SEPT 2023 [Adaptive Navigational Support and Explainable Recommendations in a Personalized Pract...](#)
presented **Jordan Barria-Pineda**, Kamil Akhuseyinoglu, Peter Brusilovsky
ACM Conference on Hypertext and Social Media (Hypertext 2023)
Rome, Italy
- JULY 2023 [Help Me Read! Expanding Students' Reading with Wikipedia Articles](#)
AB Lekshmi-Narayanan, Kushbhoo Thaker, Peter Brusilovsky, **Jordan Barria-Pineda**
16th International Conference on Educational Data Mining
Bangalore, India
- JULY 2022 [A Study of Worked Examples for SQL Programming](#)
Kamil Akhuseyinoglu, Ryan Hardt, **Jordan Barria-Pineda**, Peter Brusilovsky,
Kerttu Pollari-Malmi, Teemu Sirkiä, Lauri Malmi
ACM Conference on Innovation and Technology in Computer Science Education (ITICSE 2022)
Dublin, Ireland
- JULY 2022 [Enriching intelligent textbooks with interactivity: When smart content allocation goes wrong](#)
Alireza Javadian, Isaac Alpizar-Chacon, **Jordan Barria-Pineda**, Peter Brusilovsky,
Sergey Sosnovsky
4th International Workshop on Intelligent Textbooks (iTextbooks '22)
Durham,UK
- JULY 2022 [Augmenting Digital Textbooks with Reusable Smart Learning Content: Solutions and Challenges](#)
presented **Jordan Barria-Pineda**, AB Lekshmi-Naranayan, Peter Brusilovsky
4th International Workshop on Intelligent Textbooks (iTextbooks '22)
Durham,UK
- Nov. 2021 [Stepwise Help and Scaffolding for Java Code Tracing Problems With an Interactive Trace Table](#)
Zak Risha, **Jordan Barria-Pineda**, Peter Brusilovsky
Koli Calling International Conference on Computing Education Research (Koli Calling 2021)
Koli, Finland
- JUNE 2021 [Explainable Recommendations in a Personalized Programming Practice System](#)
presented **Jordan Barria-Pineda**, Kamil Akhuseyinoglu, Stefan Zelem-Celap, Peter Brusilovsky,
Aleksandra Klasnja Milicevic, Mirjana Ivanovic
International Conference on Artificial Intelligence in Education (AIED 2021)
Online (from Utrecht, The Netherlands)
- JUNE 2021 [Integrating textbooks with smart interactive content for learning programming](#)
Isaac Alpizar-Chacon, **Jordan Barria-Pineda**, Kamil Akhuseyinoglu, Sergey Sosnovsky, Peter B...
3rd International Workshop on Intelligent Textbooks (iTextbooks '21)
Online (from Utrecht, The Netherlands)
- MARCH 2021 [Learning Analytics Dashboard for Monitoring Students' Free- practice Learning Activity](#)

- Han Zhang, **Jordan Barria-Pineda**, Peter Brusilovsky
Learning Analytics and Knowledge Conference (LAK'21)
Online [Demo paper]
- SEPT. 2020 [Exploring Student-Controlled Social Comparison](#)
Kamil Akhuseyinoglu, **Jordan Barria-Pineda**, Sergey Sosnovsky, Anna-Lena Lamprecht,
Julio Guerra, Peter Brusilovsky
15th European Conference on Technology Enhanced Learning (EC-TEL 2020)
Online (from Heidelberg, Germany)
- SEPT. 2020 [Knowledge-driven wikipedia article recommendation for electronic textbooks](#)
Behnam Rahdari, Peter Brusilovsky, Khushboo Thaker, **Jordan Barria-Pineda**
15th European Conference on Technology Enhanced Learning (EC-TEL 2020)
Online (from Heidelberg, Germany)
- JULY 2020 [Personalized Remedial Recommendations for SQL Programming Practice System](#)
presented **Jordan Barria-Pineda**, Kamil Akhuseyinoglu, Peter Brusilovsky, Kerttu Pollari-Malmi
Teemu Sirkiä, Lauri Malmi
*Adaptation and Personalization in Computer Science Education (APCSE) co-located with
the 28th ACM Conference on User Modeling, Adaptation and Personalization (UMAP 2020)*
Online (from Geneva, Italy)
- JULY 2020 [Exploring the Need for Transparency in Educational Recommender Systems](#)
presented **Jordan Barria-Pineda**
*Doctoral Consortium at the 28th ACM Conference on User Modeling, Adaptation, and
Personalization (UMAP 2020)*
Online (from Geneva, Italy)
- JULY 2020 [Using Knowledge Graph for Explainable Recommendation of External Content in E-Textbooks](#)
Behnam Rahdari, Peter Brusilovsky, Khushboo Thaker, **Jordan Barria-Pineda**
2nd International Workshop on Intelligent Textbooks (iTextbooks '20)
- APRIL 2020 [Integrating personalized online practice into an introductory programming course](#)
Yana Kortsarts, Kamil Akhuseyinoglu, **Jordan Barria-Pineda**, Peter Brusilovsky
Journal of Computing Sciences in Colleges
- MARCH 2020 [Understanding the Effects of Control and Transparency in Searching as Learning](#)
Cecilia di Sciascio, **Jordan Barria-Pineda**, Colleen Culley, Eduardo Veas
25th International Conference on Intelligent User Interfaces (IUI 2020)
Online (from Cagliari, Italy)
- SEPT. 2019 [Concept-Level Design Analytics for Blended Courses](#)
Laia Albó, **Jordan Barria-Pineda**, Peter Brusilovsky, Davinia Hernández-Leo
14th European Conference on Technology Enhanced Learning (EC-TEL 2019)
Delft, The Netherlands
- JUNE 2019 [Reading Mirror: Social Navigation and Social Comparison for Electronic Textbooks](#)
presented **Jordan Barria-Pineda**, Peter Brusilovsky, Daqing He
*1st Workshop on Intelligent Textbooks co-located with the 20th International Conference
on Artificial Intelligence in Education (AIED '19)*
Chicago, USA
- JUNE 2019 [An Intelligent Tutoring System for Source Code Comprehension](#)
Vasile Rus, Peter Brusilovsky, Scott Fleming, L. Tamang, K. Akhuseyinoglu, **Jordan Barria-Pineda**
20th International Conference on Artificial Intelligence in Education (AIED '19)

Chicago, USA [Demo Paper]

- JUNE 2019 [Explaining Need-based Educational Recommendations Using Interactive Open Learner Models](#)
Jordan Barria-Pineda, Kamil Akhuseyinoglu, Peter Brusilovsky
Workshop on Transparent Personalization Methods based on Heterogeneous Personal Data co-loc. with the 27th ACM Conference On User Modelling, Adaptation And Personalization (UMAP 2019)
Larnaca, Cyprus
- MAY 2019 [Iterative discriminant tensor factorization for behavior comparison in MOOCs](#)
Xidao Wen, Yu-Ru Lin, Xi Liu, Peter Brusilovsky, **Jordan Barria-Pineda**
The World Wide Web Conference (WWW '19)
San Francisco, USA
- MARCH 2019 [Explaining Educational Recommendations Through a Concept Level Knowledge Visualization](#)
presented **Jordan Barria-Pineda**, Peter Brusilovsky
24th International Conference on Intelligent User Interfaces (IUI 2019)
Los Angeles, USA [Demo Paper]
- MARCH 2019 [Making Educational Recommendations Transparent through a Fine-Grained Open Learner M...](#)
presented **Jordan Barria-Pineda**, Peter Brusilovsky
Workshop on Algorithmic Transparency for Emerging Technologies co-located with the 24th International Conference on Intelligent User Interfaces (IUI 2019)
Los Angeles, USA
- SEPT. 2018 [Course-adaptive content recommender for course authoring](#)
Hung Chau, **Jordan Barria-Pineda**, Peter Brusilovsky
European Conference on Technology Enhanced Learning (EC-TEL '18)
Leeds, UK
- JULY 2018 [A Fine-Grained Open Learner Model for an Introductory Programming Course](#)
presented **Jordan Barria-Pineda**, Julio Guerra-Hollstein, Peter Brusilovsky
26th Conference on User Modeling, Adaptation and Personalization (UMAP 2018)
Singapore
- JUNE 2018 [Learning Content Recommender System for Instructors of Programming Courses](#)
Hung Chau, **Jordan Barria-Pineda**, Peter Brusilovsky
International Conference in Artificial Intelligence in Education (AIED '18)
London, UK
- JULY 2017 [Fine-Grained Open Learner Models: Complexity Versus Support](#)
attended Julio Guerra-Hollstein, **Jordan Barria-Pineda**, Christian Schunn, Susan Bull, Peter Brusilovsky
25th Conference on User Modeling, Adaptation and Personalization (UMAP 2017)
Bratislava, Slovakia
James Chen Best Student Paper Award
- JULY 2017 [Learner Modeling for Integration Skills](#)
Yun Huang, Julio Guerra-Hollstein, **Jordan Barria-Pineda**, Peter Brusilovsky
25th Conference on User Modeling, Adaptation and Personalization (UMAP 2017)
Bratislava, Slovakia
- JULY 2017 [Content Wizard: Concept-Based RecSys for Instructors of Programming Courses](#)
Hung Chau, **Jordan Barria-Pineda**, Peter Brusilovsky
4th International Workshop on Educational Recommender Systems, co-located with the 25th Conference on User Modeling, Adaptation and Personalization (UMAP 2017)
Bratislava, Slovakia

- MARCH 2017 presented [Concept-based Knowledge Visualization for Supporting Self-Regulated Learning](#)
Jordan Barria-Pineda, Julio Guerra-Hollstein, Yun Huang, Peter Brusilovsky
22nd International Conference on Intelligent User Interfaces (IUI 2017)
 Limassol, Cyprus
- SEPT. 2014 presented [Visualizing Student Participation in a Collaborative Learning Environment](#)
Jordan Barria-Pineda, Eliana Scheihing, Denis Parra
1st International Workshop on Social Personalisation (SP 2014) co-located with the 25th ACM Conference on Hypertext and Social Media (HT 2014)
 Santiago, Chile

WORK EXPERIENCE

- JAN 2026- NOW | Assistant Professor
Escuela de Informática y Telecomunicaciones, Universidad Diego Portales, Santiago, Chile
Research and Teaching activities (Software Engineering and Programming courses).
- JAN 2025- DEC 2025 | Graduate Research Assistant at [C-3PE project](#)
School of Computing and Information, University of Pittsburgh, Pittsburgh, PA, USA
Running classroom studies with adaptive technologies for supporting Computer Science Education.
- MAY 2022- AUG 2024 | Graduate Research Assistant at Cuentame Cuentos project
Learning Research and Development Center (LRDC), University of Pittsburgh, Pittsburgh, PA, USA
Development of an intelligent app and the integration of dialogic reading and elaborative reminiscing techniques for promoting Latino preschoolers' literacy skills.
- JUN.-AUG. 2018 | Summer Research Intern
IBM T.J. Watson Research Center, Yorktown Heights, NY, USA
Development of a Visual Recommender System for Learning Content to Support K-12 Teachers
 Mentor: Dr. Jae-Wook Ahn
- 2016-2019 | Graduate Research Assistant in ["Open Corpus Personalized Learning"](#) project
Development of a Digital Reading System which visualizes students' learning progress
 Graduate Research Assistant in ["Open Social Learner Models"](#) project
Development of a Concept-Based Knowledge Visualization for supporting Self-Regulated Learning in introductory programming courses
School of Information Sciences, University of Pittsburgh, Pittsburgh, PA, USA
- 2015 - 2016 | Software Engineer / SCRUM Master (small developer team)
["Learning and Teaching Math in the 21st Century"](#) Project
Computer Science Institute, Universidad Austral de Chile, Valdivia, Chile
Development of a Student Progress Monitoring System for K-12 Teachers

- JAN.-MAR. 2014 | Internship in SENSORY PHYSIOLOGY LAB,
School of Medicine, Universidad Austral de Chile, Valdivia, Chile
Development of an ImageJ plugin for the Detection of "Vesicle Fusion Events" in microscope-recorded videos
- APR.-SEPT. 2013 | Part-time Developer in INFORMATION TECHNOLOGIES SERVICES CENTER,
Universidad Austral de Chile, Valdivia, Chile
Corporate Web Page Maintenance

TEACHING EXPERIENCE

Courses Taught and Guest Lectures

- NOV - DEC '25 | Instructor and workshop facilitator, *Information Visualization* class (taught in English)
Escuela de Ing. Civil en Informática, Universidad Austral, Valdivia, Chile
- AUG - DEC '24 | Instructor of CMPINF0401 "Intermediate Programming" course
AUG '20 - APRIL '22 | **School of Computing and Information, University of Pittsburgh**, Pittsburgh, PA, USA
- NOV. '22 | Lecture of the "**Human-AI Interaction**" module of the CS2367 class (*Foundations of Human-Computer Interaction*)
School of Computing and Information, University of Pittsburgh, Pittsburgh, PA, USA
- JUN. '19 | "Learner-Centered Visual Analytics" workshop facilitator at LASI'19 *Learning Analytics Summer Institute*, **University of British Columbia**, Vancouver, Canada
- SEPT.-DEC. '15 | Adjunct Instructor of "Introduction to Programming" course
Engineering Science Baccalaureate Program
Computer Science Institute, Universidad Austral de Chile, Valdivia, Chile

Teaching Assistantships

- JAN.-DEC. '17 | Teaching Assistant of "Introduction to Object Oriented Programming" course
School of Information Sciences, University of Pittsburgh, Pittsburgh, PA, USA
- 2014 | Teaching Assistant of "Artificial Intelligence" course
Modules: Evolutionary Algorithms, Non-Supervised Learning
School of Informatics, Universidad Austral de Chile, Valdivia, Chile
- 2011 | Teaching Assistant of "Data Structures and Algorithms" course
School of Informatics, Universidad Austral de Chile, Valdivia, Chile
- 2010 | Teaching Assistant of "Algebra" course

MENTORSHIP EXPERIENCE

Supervised Students

- | | |
|-------------|--|
| FEB. '24 | Miguel Nahuelpan Aliante, <i>Master in Informatics</i>
<u>Thesis title</u> : Joint Control for Selection of Content in a Tutor for Engineering's Pre-Algebra
Universidad Austral de Chile , Valdivia, Chile |
| SPRING 2020 | Han Zhang, <i>Master of Science in Information Science (MSIS)</i>
<u>Capstone project</u> : Learning Analytics Dashboard for Monitoring Students' Free-practice Learning Activity
School of Computing and Information, University of Pittsburgh , Pittsburgh, PA, USA |
| SPRING 2020 | Emil Kjenstad, <i>BS in Computer Science</i>
<u>Capstone project</u> : Real-Time Learning Analytics Dashboard for Teaching Assistants
School of Computing and Information, University of Pittsburgh , Pittsburgh, PA, USA |

Other Mentorships

- | | |
|------------------------|---|
| MAY - AUG. '24 | Program Coordinator
NOUR Program (<i>Network Of Undergraduate Researchers</i>)
Guided 10 undergrad students on how to do research through collaborative, hands-on activities. The program closed with a poster session.
School of Computing and Information, University of Pittsburgh |
| JULY 2024
JULY 2023 | Research mentor
<i>LearnLab Summer School - CS Education Research (CER) track</i>
Guided 2 groups of students on a 1-week project related to the CER data analysis (gender disparity in CS and sequence mining of learning data)
Carnegie Mellon University (CMU) , Pittsburgh, PA, USA |

FELLOWSHIPS AND DISTINCTIONS

- DEC 2024 *Provost's Dissertation Completion Fellowship, University of Pittsburgh*
- APRIL 2024 *Spring 2024 Catherine Ofiesh and Gerald Orner Award, SCI, University of Pittsburgh*
- SPRING 2024 *LRDC Graduate Student Support program, LRDC, University of Pittsburgh*
- 2018-2020 *Becas Chile Fellowship (covered 2.5 years of PhD program)*
- JULY 2017 James Chen Best Student Paper Award
Full Paper: *Fine-Grained Open Learner Models: Complexity Versus Support*
25th Conference on User Modeling, Adaptation and Personalization (UMAP 2017)
- MAR. 2016 "Best Graduated Engineer of the Year 2015" award, **Colegio de Ingenieros de Chile A.G.**
- MAR. 2016 Distinguished Instructor 2nd Sem. 2015 Teaching Assesment Survey (Score: 3.86 out of 4.0),
Universidad Austral de Chile
- MAR. 2012 "Best career GPA" Fellowship, **Universidad Austral de Chile**
- 2009-2015 "Rector Morales Miranda" Fellowship, **Universidad Austral de Chile**

PROFESSIONAL MEMBERSHIPS

- Member of ACM (Association for Computing Machinery)
- Member of AIED Society (Artificial Intelligence in Education)
- Member of SIGCHI (ACM Special Interest Group on Computer Human Interaction)
- Member of SOLAR (Society for Learning Analytics Research)

LANGUAGES

SPANISH Native speaker
ENGLISH Advanced level, both spoken and written (TOEFL Score: 105)

ACADEMIC SERVICE

- Journals Human-Computer Interaction
International Journal of Artificial Intelligence in Education (IJAIED)
ACM Transactions on Recommender Systems
- Conferences Artificial Intelligence in Education (AIED)
European Conference on Technology-Enhanced Learning (EC-TEL)
- WORKSHOPS XLA: Workshop on Generating Explainable and Actionable Insights for Learning Analytics @ EC-TEL
Workshop on Intelligent Textbooks @ AIED
XAI-Ed Workshop (Pedagogy-Founded Expl. AI for Transparent, User-Centered AI in Ed.) @ AIED
IntRS Workshop (Interfaces and Human Decision Making for Recomm. Systems) @ RecSys

ENGAGEMENT AND VOLUNTEER WORK

- JULY 2022 - 2024 Member of the Equity and Inclusion in Teaching Community of Practice
School of Computing and Information at the University of Pittsburgh
- MAY-NOV. 2021 Business Manager
Latin American Graduate Association of Students (LAGOS) at the Univ. of Pittsburgh
- MAY 2020-APRIL 2021 President
Latin American Graduate Association of Students (LAGOS) at the Univ. of Pittsburgh
- JAN.-APR. 2020 Outreach Coordinator
Latin American Graduate Association of Students (LAGOS) at the Univ. of Pittsburgh