

Irene-Angelica Chounta

JUNIOR PROFESSOR · COMPUTATIONAL METHODS IN MODELING AND ANALYSIS OF LEARNING PROCESSES
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Education

University of Patras

PHD IN ENGINEERING (HUMAN-COMPUTER INTERACTION)

• Advisor: Dr. Nikolaos Avouris

Patras, Greece

July, 2014

University of Patras

DIPLOMA IN ELECTRICAL AND COMPUTER ENGINEERING (MSC EQUIVALENT)

Patras, Greece

2005

ATEI Piraeus

BS UNDERGRADUATE DEGREE IN COMPUTER SYSTEMS ENGINEERING

Piraeus, Greece

2000

Professional Experience

2021-
present

Junior Professor, University of Duisburg-Essen, Germany

2018-2021

Assistant Professor, University of Tartu, Estonia

2016-2018

Postdoctoral Researcher, HCII, Carnegie Mellon University, USA

2014-2016

Postdoctoral Researcher, University of Duisburg-Essen, Germany

2009-2014

PhD Student/Researcher, University of Patras, Greece

2005-2009

Junior Researcher, University of Patras, Greece

2002-2003

Network Assistant at Network Center, UPNET, University of Patras, Greece

1999-2001

Web Administrator/Network Technician, TEI Piraeus, Greece

Selected Publications

PUBLISHED

Chounta, I. A., Bardone, E., Raudsep, A., & Pedaste, M. (2021). Exploring teachers' perceptions of Artificial Intelligence as a tool to support their practice in Estonian K-12 education. *International Journal of Artificial Intelligence in Education*, 1-31.

Katz, S., Albacete, P., Chounta, I. A., Jordan, P., McLaren, B. M., & Zapata-Rivera, D. (2021). Linking Dialogue with Student Modelling to Create an Adaptive Tutoring System for Conceptual Physics. *International Journal of Artificial Intelligence in Education*, 1-49.

Tanvir, H., Chounta, I-A. (2021) Exploring the Importance of Factors Contributing to Dropouts in Higher Education Over Time. *Proceedings of the 14th International Conference on Educational Data Mining (EDM 2021)*

Nolte, A.; Chounta, I.A.; Herbsleb, J.D. (2020). What Happens to All These Hackathon Projects? - Identifying Factors to Promote Hackathon Project Continuation. *Proceedings of the ACM on Human-Computer Interaction*, 4 (CSCW2).

Chounta I.A. (2019) Collaborative Learning and Patterns of Practice. In: Tatnall A. (eds) *Encyclopedia of Education and Information Technologies*. Springer, Cham

Albacete, P., Jordan, P., Katz, S., Chounta, I. A., & McLaren, B. M. (2019). The Impact of Student Model Updates on Contingent Scaffolding in a Natural-Language Tutoring System. In *Artificial Intelligence in Education (AIED 2019)*.

Chounta, I.A. (2019). Combining Machine Learning and Learning Analytics to Provide Personalized, Adaptive Scaffolding. In *Proceedings of 13th International Conference on Computer Supported Collaborative Learning (CSCL) 2019*.

- Chounta, I. A., Carvalho, P.F. (2019). Square it up! How to model step duration when predicting student performance. In Proceedings of 9th International Conference on Learning Analytics & Knowledge.
- Albacete, P., Jordan, P., Lusetich, D., Chounta, I. A., Katz, S., & McLaren, B. M. (2018). Providing Proactive Scaffolding During Tutorial Dialogue Using Guidance from Student Model Predictions. In Artificial Intelligence in Education (AIED 2018).
- Chounta, I. A., Carvalho, P.F. (2018). Will time tell? Exploring the relationship between step duration and student performance. In Proceedings of International Conference of the Learning Sciences, ICLS 2018. International Society of the Learning Sciences
- Chounta, I. A., Albacete, P., Jordan, P., Katz, S., & McLaren, B. M. (2017). The "Grey Area": A Computational Approach to Model the Zone of Proximal Development. In European Conference on Technology Enhanced Learning (pp. 3-16). Springer, Cham.
- Chounta, I. A., McLaren, B.M., & Harrell, M. (2017). Building arguments together or alone? Using learning analytics to study the collaborative construction of argument diagrams. In B.K. Smith, M. Borge, E. Mercier, and K.Y. Lim (Eds.), Proceedings of the 12th International Conference on Computer Supported Collaborative Learning (CSCL 2017). (pp. 589-592). Philadelphia, PA: International Society of the Learning Sciences.
- Hecking, T., Chounta, I. A., & Hoppe, H. U. (2016, April). Investigating social and semantic user roles in MOOC discussion forums. In Proceedings of the Sixth International Conference on Learning Analytics & Knowledge (pp. 198-207). ACM

IN PRESS

- Ainsworth, S., Chounta, I. A. (2021). The roles of representation in computer supported collaborative learning. In U. Cress, J. Oshima, C. Rosé, & A. Wise (Eds.), International handbook of computer-supported collaborative learning. Berlin: Springer ISBN 978-3-030-65291-3.

Grants, Awards, Fellowships

- 2020 **Institute of Education, Development Fund Award**, University of Tartu
- 2019 **Personal Research Start-up Grant (Principal Investigator)**, Estonian Research Council
- 2014 **Erasmus Placement Grant**, University of Patras

Invited Talks

- October, 2020: Invited talk, Bernoulli Institute, University of Groningen, the Netherlands. Talk title: "Towards computational systems of human cognition for guiding multifaceted, personalized learning."
- July, 2020: Invited talk, Deutsches Forschungszentrum für Künstliche Intelligenz (DFKI), Universität des Saarlandes, Germany. Talk title: "Using computational analytics to provide personalized, adaptive scaffolding in technology-enhanced learning contexts."
- February, 2020: Invited talk, Department of Computer Science and Applied Cognitive Science, University of Duisburg-Essen, Germany. Talk title: "From data traces to interventions: Computational Methods in Modeling and Analysis of Learning Processes"
- September, 2019: Invited talk at the Learning and Educational Technologies Research Unit, University of Kyoto, Japan (Talk title: "Computational Learning Analytics for Personalized, Adaptive Feedback in Formal Education")
- May, 2019: Invited talk at the Institute for Business Informatics, Johannes Kepler University (Talk title: "Computational Learning Analytics to Provide Personalized, Adaptive Scaffolding")
- April, 2019: Invited talk at the Institute of Computer Science, University of Tartu (Talk title: "Using data analytics to provide personalized, adaptive feedback in educational contexts and beyond").
- December 2018: Invited talk at the European Schoolnet, Learning Research Exchange subcommittee (Talk title: Use of Artificial Intelligence and Machine Learning in OERs and educational portals)
- August 2018: Invited talk at the IEEE Estonia Section Meeting at Jäeneda, Estonia (talk title: "LA Tartu: Designing a Learning Analytics platform for the University of Tartu... and beyond!")
- October 2017: Invited talk at the ScienceEd meetings, University of Pittsburgh
- September 2017: Invited talk at the HCII Seminar Talks

DEMOS

April 2017: HCII Demo Day, Carnegie Mellon University, Demo Title: "An adaptive tutoring system for physics using reflective dialogue"

Teaching Experience

Spring, 2021	Praxisproject , Lecturer	<i>Duisburg</i>
Fall, 2020	Introduction to Learning Analytics , Lecturer	<i>Tartu</i>
Spring, 2020	Research in Educational Technology , Lecturer	<i>Tartu</i>
Spring, 2020	Quantitative methods in Educational Research (phD) , Lecturer	<i>Tartu</i>
Fall, 2019	Introduction to Learning Analytics , Lecturer	<i>Tartu</i>
Fall, 2019	Research in Educational Technology , Lecturer	<i>Tartu</i>

Supervision

2020-present	Eric Roldan Roa , PhD, University of Tartu
2019-present	Mahesha Harshani De Silva , PhD, Tallinn University
2018-present	Tiiu Leibur , PhD, University of Tartu
2019-2020	Eric Roldan Roa , Msc, University of Tartu
2019-2020	Karlis Caune , Msc, University of Tartu
2018-2029	Sofia Demchuk , Msc, University of Tartu
2019-2020	Antonina Korepanova , Msc, University of Tartu
2019-2020	Primla Indira Williamson-munroe , Msc, University of Tartu
2018-2029	Joshua Schiefelbein , Msc, University of Tartu

Outreach & Professional Development

PROFESSIONAL MEMBERSHIPS

International Society of the Learning Sciences (ISLS), Communications Committee
Co-chair
Society for Learning Analytics Research (SoLAR), Member
International Artificial Intelligence in Education Society (IAIED), Publications Chair for the
AIED Conferences 2020, 2021
ACM, Member
IEEE, Member

EDITORIAL BOARD

International Journal of Computer Supported Collaborative Learning (ijCSCL)

Mediterranean Journal of Education

PEER REVIEW

International Journals: ijAIED, JLA, Computers & Education, Journal of Computer Assisted Learning

International Conferences: LAK, ECTEL, CSCL, ICLS, AIED, CSCW, CHI