

# Matjaž Kljun

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## Education

2014 PhD in Computer Science (Human-Computer Interaction), *School of Computing and Communication, Lancaster University, UK*  
2008 MSc in Information systems and decision making (Human-Computer Interaction), *Faculty of Computer and Information Science, University of Ljubljana, Slovenia*  
2002 BSc in Computer Science, *Faculty of Computer and Information Science, University of Ljubljana, Slovenia*

## Appointments

2025–present Full Professor, *FAMNIT, University of Primorska, Slovenia*  
2024–present Research fellow, *Stellenbosch University, South Africa*  
2020–2025 Associate Professor, *FAMNIT, University of Primorska, Slovenia*  
2019–2022 Research scientist, *Faculty of Mathematics and Physics, University of Ljubljana, Slovenia*  
2017–2022 Research scientist, *Faculty of Information Studies, Novo Mesto, Slovenia*  
2015–2020 Assistant Professor, *FAMNIT, University of Primorska, Slovenia*  
2017 Visiting researcher, *Interactive Media Design Lab, Nara institute of Science and Technology, Japan*  
2014–2015 Lecturer, *FAMNIT, University of Primorska, Slovenia*  
2009–2013 PhD researcher, *Lancaster University, Lancaster, UK*  
2007–2014 Teaching Assistant, *FAMNIT, University of Primorska, Slovenia*  
2005 Visiting research assistant, *Luleå University of Technology, Sweden*  
2002–2007 Teaching Assistant, *Faculty of Education, University of Primorska, Slovenia*

## Teaching

Lectures Human-computer interaction (2016–2026) (joint course with Ben-Gurion University of Negev 2019–2023), Multimedia design (2015–2026), Computer organisation and architecture (2018–2026), Selected topics in Human-Computer Interaction MsC (2016–2018), Selected topics in Information Visualisation MsC (2017–2018, 2021–2026), Computer practicum (2017–2020, 2024)  
Practicals & lab sessions Operating systems (2005–2007), Application software (2004–2007), Computer practicum (2007–2015), Database systems (2008–2014), ICT in education (2006), Multimedia design (2013–2014)

## Institutional responsibilities

2019–present	Executive board member, <i>University of Primorska, Slovenia</i>
2015–present	Coordinator of the Master’s programme in Computer Science, <i>FAMNIT, University of Primorska, Slovenia</i>
2015–present	Co-director of the HICUP Lab ( <a href="http://hicup.famnit.upr.si">hicup.famnit.upr.si</a> ), <i>FAMNIT, University of Primorska, Slovenia</i>
2024–present	IFIP TC 13 Country representative ( <a href="http://ifip-tc13.org">ifip-tc13.org</a> )
2016–present	Member of the Committee of students and study affairs, <i>FAMNIT, University of Primorska, Slovenia</i>
2016–present	Member of the Disciplinary committee, <i>University of Primorska, Slovenia</i>

## Selected recent publications

2025	<b>Text-to-image generation for vocabulary learning using the keyword method</b> Attygalle NT, Kljun M, Quigley A, Čopič Pucihar K, Grubert J, Biener V, Leiva LA, Yoneyama J, Toniolo A, Miguel A, Kato H. ACM IUI 2025 Mar 24 (pp. 1381-1397), <a href="https://doi.org/10.1145/3708359.3712073">10.1145/3708359.3712073</a>
2024	<b>Effects of Eye Vergence and Accommodation on Interactions with Content on an AR Magic-lens Display and its Surroundings</b> G Lugtenberg, K Čopič Pucihar, M Kljun, T Sawabe, Y Fujimoto, M Kanbara, H Kato IEEE Transactions on Visualization and Computer Graphics, <a href="https://doi.org/10.1109/TVCG.2024.3403261">10.1109/TVCG.2024.3403261</a>
2023	<b>Exploring the future building: representational effects on projecting oneself into the future office space</b> M Weerasinghe, K Čopič Pucihar, J Ducasse, A Quigley, A Toniolo, A Miguel, N Caluya, M Kljun Virtual Reality 27 (1), 51-70, <a href="https://doi.org/10.1007/s10055-022-00673-z">10.1007/s10055-022-00673-z</a>
2022	<b>A survey of augmented piano prototypes: has augmentation improved learning experiences?</b> JA Deja, S Mayer, K Čopič Pucihar, M Kljun PACM HCI 6 (ISS), 226-253, <a href="https://doi.org/10.1145/3567719">10.1145/3567719</a>
2022	<b>VocabulARY: Learning Vocabulary in AR Supported by Keyword Visualisations</b> M Weerasinghe, V Biener, J Grubert, AJ Quigley, A Toniolo, K Čopic Pucihar, M Kljun IEEE Transactions on Visualization and Computer Graphics, <a href="https://doi.org/10.1109/TVCG.2022.3203116">10.1109/TVCG.2022.3203116</a>
2020	<b>Interactive Web Documentaries: A Case Study of Audience Reception and User Engagement on iOtok</b> J Ducasse, M Kljun, K Čopič Pucihar International Journal of Human–Computer Interaction, <a href="https://doi.org/10.1080/10447318.2020.1757255">10.1080/10447318.2020.1757255</a>
2019	<b>Augmentation not Duplication: Considerations for the Design of Digitally-Augmented Comic Books</b> M Kljun, K Čopič Pucihar, J Alexander, M Weerasinghe, C Campos, J Ducasse, B Kopačin, J Grubert, P Coulton, M Čelar Proceedings of the ACM CHI Conference on Human Factors in Computing Systems 2019, <a href="https://doi.org/10.1145/3290605.3300333">10.1145/3290605.3300333</a>

## PhD Students

2025	Jordan Aiko Deja (supervisor): Designing Augmented Reality Training Systems for Piano and Jazz Improvisation
2024	Cuauhtli Campos Mijangos (co-supervisor): Designing Interactive Paper Displays by Interlacing Physical and Digital Content Using Horizontal Touchscreens
2024	Nuwan Attygale (co-supervisor): Improving interaction with radar-based gesture recognition when sensing through materials
2023	Maheshya Weerasinghe–Joint PhD with University of St Andrews (supervisor): Adaptive guidance in extended reality learning environments

## Professional and community activities

Co-Organiser	<a href="#">ACM ISS 2026 general co-chair</a> ; <a href="#">HCI SI 2023 conference co-chair</a> ; 2020 programme co-chair; 2019 conference chair; <a href="#">Mobile HCI 2021 demo co-chair</a> ; 2020 workshop co-chair; <a href="#">European Researchers' Night 2016–2020</a> ; <a href="#">International Workshop on Cross-Reality Interaction XR 2020 @ ISS</a> ; <a href="#">IEEE Conference on Artificial Intelligence &amp; Virtual Reality 2020 Immersive analytics Workshop organisation</a> ; 2020 special session co-chair; 2019 workshop co-chair; 2018 workshop co-chair; <a href="#">International Workshop on Human-Drone Interaction iHDI 2019 @ CHI</a> ; <a href="#">International Workshop on Multimodal Virtual &amp; Augmented Reality MVAR 2018 @ ISMAR</a> ; <a href="#">MVAR 2016 @ ICMI OpenOffice.org Conference 2005</a>
Reviewer	<a href="#">ACM IUI (2016–2026)</a> ; <a href="#">The Web (WWW) conf (2026)</a> ; <a href="#">INTERACT (2025)</a> ; <a href="#">HCI SI (2019–2021, 2023–2025)</a> ; <a href="#">IEEE TVCG (2025)</a> ; <a href="#">Mobile HCI (2024)</a> ; <a href="#">NordiCHI (2024)</a> ; <a href="#">Information and Culture (2024)</a> ; <a href="#">ACM CHI Student Design competition (2023)</a> ; <a href="#">ACM UMAP (2021–2025)</a> ; <a href="#">IEEE Access (2019, 2025)</a> ; <a href="#">IEEE ISMAR (2019, 2020, 2022, 2024, 2025)</a> ; <a href="#">IEEE Trans on Learning Tech (2018, 2023, 2024)</a> ; <a href="#">IEEE AIVR (2019–2023, 2025)</a> ; <a href="#">ACM CHI (2022)</a> ; <a href="#">Frontiers in Psy (2021–2024)</a> ; <a href="#">IJHC (2022, 2025)</a> ; <a href="#">PeerJ CS (2022)</a> ; <a href="#">JLIS (2022)</a> ; <a href="#">JASIST (2014–2021)</a> ; <a href="#">XR workshop at ACM ISS (2020)</a> ; <a href="#">IEEE AIVR ImAna (2020)</a> ; <a href="#">Behavioural &amp; information technologies (2020)</a> ; <a href="#">PerDis (2018–2019)</a> ; <a href="#">ACM THIS (2019)</a> ; <a href="#">MVAR (2016, 2018)</a> ; <a href="#">IWC (2017)</a> ; <a href="#">PAUC (2017, 2018, 2019)</a> ; <a href="#">BCS-HCI (2012, 2013)</a> ; <a href="#">PIM workshop (2012)</a> ; <a href="#">alt.CHI (2014, 2016)</a> ; <a href="#">Information visualisation (2007, 2009)</a>
Member	<a href="#">ACM SIGCHI Chapter Bled (founding member and chair (2018–2025))</a> ; <a href="#">ACM SIGCHI Special Interest Group on Computer-Human Interaction (2006–present)</a> ; Working group for the analysis of the presence of computer science and informatics in primary and secondary school curricula and for the preparation of a study on possible changes ( <a href="#">RINOS</a> ) @ Slovene Ministry of Education, Science and Sport (2016–2018); <a href="#">IAESTE (1996–2000)</a> ; <a href="#">EESTEC (1996–2000)</a>
Student Volunteer	<a href="#">ACM CHI 2011 Conference on Human Factors in Computing Systems</a> ; <a href="#">BCS-HCI 2011 BCS Conference on Human-Computer Interaction</a> ; <a href="#">ACM CHI 2012 Conference on Human Factors in Computing Systems</a>
Other	<a href="#">ŠOUPEK</a> : leader of a project promoting open source software among students at University of Primorska and providing ICT related courses to students and general public.

## Projects with grants

2023–2026	Improving B-WIM performance with big data and AI (BrAId)– <a href="#">ARIS</a>
2023–2026	AR to achieve better understanding of the triple nature of chemical concepts– <a href="#">ARIS</a>
2019–2022	E-knowledge for mental health: development, implementation and evaluation of online interventions for suicide prevention and strengthening of mental health (J5-1796)– <a href="#">ARIS</a>
2015–2020	Creative Path to Practical Knowledge– <a href="#">JSRS</a> .
2006–2008	Computer tools in the development of production programs–Part 2 (L1-7230) – <a href="#">ARIS</a>
2006–2007	e–VIZUS: Informatisation of Education and Training in Slovenian Army (M5-0164)– <a href="#">ARIS</a>
2004–2007	Integrating information technology into teaching and learning models (L5-6135)– <a href="#">ARIS</a>
<a href="#">2006–2008</a>	Interreg ISMO: Information System about the Marine Environment in the Gulf of Trieste– <a href="#">Interreg IIIA Slovenia-Italy</a>

## Grants, honors & awards

2025	ACM IUI 2025, <a href="#">Best paper award</a> for paper “Text-to-Image Generation for Vocabulary Learning Using the Keyword Method”
2023	University of Primorska <a href="#">Prize for Scientific Excellence</a> for the quality of publications published in 2022
2022	ACM ISS 2022, <a href="#">Honorable mention award</a> for paper “A Survey of Augmented Piano Prototypes: Has Augmentation Improved Learning Experiences?”
2022	ACM EICS 2022, <a href="#">Honorable mention award</a> for paper “Solids on Soli: Millimetre-Wave Radar Sensing

through Materials”

- 2011 ACM UMAP 2011, Best Doctoral Consortium paper
- 2009 Lancaster university, UK, Science and Technology PhD Scholarship

## Talks

- 2023 Hagaki. Hug a key? Supporting language learning with novel technologies, 3 October 2023, University of Luxembourg
- 2023 Hagaki. Hug a key? Supporting language learning with novel technologies, 21 September 2023, Stellenbosch University
- 2022 Hagaki. Hug a key? Language learning with Augmented Reality, 6 June 2022, Ben-Gurion University of Negev
- 2019 Persuasive technologies in m-learning for training professionals, School of Computing and Communications, 10 May 2019, Lancaster University
- 2018 Large scale studies of habit changing interface design, 12 April 2018, University of St Andrews
- 2017 Co-presence and content creation in future immersive environments, 20 November 2017, NAIST
- 2017 Technologies for assisting users and enhancing capabilities, 20 November 2017, NAIST
- 2017 Technologies for assisting users and enhancing capabilities: studies from 1 to 1000, 10 October 2017, University of Tokyo