

Marios Constantinides, Ph.D.

(Curriculum Vitae)

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I. RESEARCH INTERESTS

I am currently a Senior Research Scientist at Nokia Bell Labs, Cambridge, a Visiting Research Fellow at the University of Cambridge, and a Visiting Lecturer at the University College London. My research interests revolve around human-computer interaction (HCI) and responsible AI. In particular, I work in the area of human-centered AI, employing mobile- and wearable-sensing with the aim of building technologies that augment the ways people interact and communicate in a responsible way.

II. EDUCATION

Ph.D., Computer Science, University College London, UK

Dissertation: Interaction-driven User Interface Personalisation for Mobile News Systems

Oct 2013 – Jul 2018

M.Sc., Software Systems Engineering, University College London, UK

Thesis: Gadgeteer Internet of Things API

Sep 2012 – Sep 2013

B.Sc., Computer Science, University of Cyprus, Cyprus

Thesis: Content Authoring System for Dynamic Generation of Adaptive Web Objects

Sep 2008 – Jun 2012

III. PROFESSIONAL EXPERIENCE

Senior Research Scientist, Nokia Bell Labs, Cambridge, UK

Oct 2021 – present

Research Scientist, Nokia Bell Labs, Cambridge, UK

Aug 2018 – Sep 2021

Visiting Lecturer, University College London, London, UK

Jan 2023 – present

Visiting Research Fellow, University of Cambridge, Cambridge, UK

May 2019 – present

Research Internship, Telefónica Innovation Alpha, Barcelona, Spain

Feb 2017 – Jun 2017

Teaching Assistant, University College London, London, UK

Jan 2014 – Mar 2018

Software Developer Internship, Lanitis Development LTD, Paphos, Cyprus

Jun 2012 – Sep 2012

Research Assistant, DMSL University of Cyprus, Nicosia, Cyprus

Jun 2011 – Sep 2011

IV. PROFESSIONAL SERVICE

Conference Organization

General Chair CHIWORK 2024; Work-in-Progress Chair CHIWORK 2022 and 2023; Organizer of Fair-Comp Workshop at UbiComp 2023; Organizer of two Special Interest Groups (SIG) on future of work and responsible AI at CHI 2023; Organizer of SensiBlend Workshop at UbiComp 2021.

Program Committee

Associate Chair MobileHCI 2023; Associate Chair CSCW 2024; Technical Program Committee: CHIWORK 2022 and 2023, UMAP 2021-2023, and IUI, UMAP, and UbiComp Workshops 2020-2023.

Reviewer

CHI 2016, 2019-2023; CSCW 2019-2021; IMWUT 2019-2021; ISWC 2021; MobileHCI 2015, 2023; CHI-WORK 2022, 2023; ICWSM 2022, 2023; UMAP 2016-2023; INTERACT 2019, 2021, 2023; CHIGreece 2021, 2023; GoodIT 2023; International Journal of Human-Computer Studies 2023; Personal and Ubiquitous Computing 2019, 2022, 2023; IEEE Pervasive Computing 2020, 2023; Springer Adaptive Environments 2021.

V. HONORS, AWARDS, AND FELLOWSHIPS

- Visiting Research Fellow, University of Cambridge, Cambridge, UK. 2019
- Travel fund to attend an HCI summer school at the Cyprus University of Technology. 2015
- Four years Ph.D. Full Scholarship by Orange France Telecom, University College London, UK. 2013
- Best Demo Award at MDM conference for the paper titled “The Airplace Indoor Positioning Platform for Android Smartphones”. 2012
- Microsoft Imagine Cup Software Design Competition 3rd place national, University of Cyprus. 2012
Crowdcast: Windows Phone Application based on Proximity Algorithms for Mobile Clients.
- ACM SIGMOD 2011 Programming Contest 6th place worldwide, University of Cyprus. 2011
A High-throughput Main-memory Index that Uses Flash-based Solid-State-Disk for Durability.

VI. PRESS COVERAGE

- “Researchers find sleep delays more prevalent in countries of particular culture than others”. *Eureka Alert*, 2023.
- “Cultural and individual factors influence sleep quantity and quality”. *Medical News*, 2023.
- “What do street names tell you about Britain?”. *The Economist*, 2022.
- “Researchers have identified the 3 stages of pandemic emotions”. *Fast Company*, 2021.
- “Stretonomics: What our addresses say about us”. *BBC Future*, 2021.
- “Street names show why great cities are worlds apart”. *The Times*, 2021.
- “What does your local street name tell you about the country you live in?” *The Times Radio*, 2021.
- “How streets in New York, London, Paris, and Vienna got their names, according to stretonomics”. *Fast Company*, 2021.
- “On the move. Cambridge and Nokia Bell Labs are working together on next-generation mobile technologies”. *University of Cambridge*, 2020.

VII. TEACHING AND SUPERVISION

Visiting Lecturer, University College London, London, UK

Jan 2023 – present

- PSYC0288: The Digital Workplace

Guest Lectures

- “Culture Quantification Using Street Names and Cultural Maps”
Geomatics course at CEPT University, India (M.Sc. students) Sep 2021
- “Workplace Productivity”
EPL202 course at University of Cyprus (B.Sc. students) Apr 2021
- “Physiological Sensing using Wearable Devices”
EPL202 course at University of Cyprus (B.Sc. students) Mar 2020

- “Modeling User’s Behavior: Towards Interaction-driven User Interface Personalization in Mobile Apps”
EPL202 course at University of Cyprus (B.Sc. students) Mar 2018

Teaching Assistant, *University College London, London, UK* Jan 2014 – Mar 2018

- COMPGC02: Design
- COMP103p: Object-Oriented Programming
- COMPGC01: Introductory Programming
- COMP3013/GC06: Database and Information Management Systems

Supervision Sep 2014 – present

- Supervised 11 Ph.D. student interns for 3-month projects
Nokia Bell Labs, Cambridge, UK Aug 2018 – present
- Committee member for Alberta Anash’s Ph.D. Dissertation
University of New Hampshire, NH, US. Sep 2023 – May 2024
- Part IB Project Design group project supervision
University of Cambridge, Cambridge, UK Jan 2023 – Mar 2023
- Co-supervised 1 B.Sc. student’s thesis
University of Cambridge, Cambridge, UK Sep 2019 – Sep 2020
- Co-supervised 1 HCI Masters student’s thesis
University College London, London, UK Sep 2017 – Jun 2018
- Co-supervised 2 M.Eng. students’ theses
University College London, London, UK Sep 2014 – Sep 2017

VIII. INVITED TALKS AND PANELS

- “Workplace Technologies and Ethics”
Microsoft Research, Cambridge, UK Nov 2022
- “Augmenting Meetings Experience”
CHIWORK Online Conversations (online) Feb 2022
- “Streetonomics: Quantifying Culture Using Street Names.”
Kings College London (CUSP), London, UK Jul 2021
- “Workplace Productivity and Well-being”
RAIS Marie Curie European Training Network Summer School (online) May 2021
- “Understanding Workplace Activities through Wearable Sensing”
University of Cambridge, Cambridge, UK Nov 2020
- “Tools for Augmenting Meetings Experience”
University College London (UCLIC), London, UK Nov 2020
- Panel on “Future of Homes, Housing, and Urbanisation”
Intellectual Forum, Jesus College, Cambridge, UK Sep 2019
- “Interaction-driven User Interface Personalization for Mobile News Apps”
BBC R&D and UCL, London, UK Nov 2017
- “Adaptive User Interfaces for Mobile News Apps”
The Guardian, London, UK May 2016
- “Adaptive Mobile User Interfaces”
User Modeling, Adaptation and Personalization Workshop, Ayia Napa, Cyprus Jun 2015

IX. LIST OF PUBLICATIONS

ORCID: <https://orcid.org/0000-0003-1454-0641>

Google Scholar: <https://scholar.google.co.uk/citations?user=80nvnPIAAAAJ>

Journals

- [J11] S. Park, A. Zhunis, M. Constantinides, L.M. Aiello, D. Quercia, M. Cha. “Social dimensions impact individual sleep quantity and quality”. **Nature Scientific Reports**, 2023.
- [J10] S. Šćepanović, M. Constantinides, D. Quercia, S Kim. “Quantifying the impact of positive stress on companies from online employee reviews”. **Nature Scientific Reports**, 2023.
- [J9] M. Constantinides, D. Quercia. “Good Intentions, Bad Inventions: How Employees Judge Pervasive Technologies in the Workplace”. **IEEE Pervasive Computing**, 2022.
- [J8] C. Ceccarini, E.P. Bogucka, I. Sen, M. Constantinides, C. Prandi, D. Quercia. “Visualizing internal sustainability efforts in big companies”. **IEEE Computer Graphics and Applications**, 2022.
- [J7] K. Zhou, M. Constantinides, S. Joglekar, D. Quercia. “Predicting meeting success with nuanced emotions”. **IEEE Pervasive Computing**, 2022.
- [J6] K. Zhou, M. Constantinides, S. Joglekar, L.M. Aiello, D. Quercia. “The Role of Different Types of Conversations for Meeting Success”. **IEEE Pervasive Computing**, 2021.
- [J5] M. Constantinides, S. Joglekar, S Šćepanović, D Quercia. “Imagine a Walkable City: Walking Activity and Urban Imageability Across 19 Major Cities”. **EPJ Data Science**, 2021.
- [J4] L.M. Aiello, D. Quercia, K. Zhou, M. Constantinides, S. Šćepanović, S. Joglekar. “How Epidemic Psychology Works on Twitter: Evolution of Responses to the COVID-19 Pandemic in the U.S.”, **Nature Humanities and Social Sciences Communications**, 2021.
- [J3] M. Bancelhon, M. Constantinides, E.P. Bogucka, L.M. Aiello, D. Quercia. “Streetonomics: Quantifying Culture Using Street Names”. **PloS one**, 2021.
- [J2] E.P. Bogucka, M. Constantinides, L.M. Aiello, D. Quercia, W. So, M. Bancelhon. “Cartographic Design of Cultural Maps”. **IEEE Computer Graphics and Applications**, 2020.
- [J1] S. Park, M. Constantinides, L.M. Aiello, D. Quercia, P. Van Gent. “Wellbeat: A Framework for Tracking Daily Well-being Using Smartwatches”. **IEEE Internet Computing**, 2020.

Conference Proceedings

- [C24] S. Yfantidou, M. Constantinides, D. Spathis, A. Vakali, D. Quercia, F. Kawsar. “The State of Algorithmic Fairness in Mobile Human-Computer Interaction”. **Proceedings of the ACM International Conference on Human-Computer Interaction with Mobile Devices and Services (MobileHCI)**, 2023.
- [C23] N. Jamalian, M. Constantinides, S. Joglekar, X. Pan, D. Quercia. “Our Nudges, Our Selves: Tailoring Mobile User Engagement Using Personality”. **Human-Computer Interaction–INTERACT 2023: IFIP TC 13 International Conference (INTERACT)**, 2023.
- [C22] K. Zhou, M. Constantinides, D. Quercia, S. Šćepanović. “How Circadian Rhythms Extracted From Social Media Relate to Physical Activity and Sleep”. **Proceedings of the International AAI Conference on Web and Social Media (ICWSM)**, 2023.
- [C21] A.A. Septiandri, M. Constantinides, M. Tahaei, D. Quercia. “WEIRD FAccTs: How Western, Educated, Industrialized, Rich, and Democratic is FAccT?”. **Proceedings of the ACM Conference on Fairness, Accountability, and Transparency (FAccT)**, 2023.
- [C20] A.A. Ansah, A.S. Vivacqua, S. Zhong, S. Boll, M. Constantinides, H. Verma , and others. “Reflecting on Hybrid Events: Learning from a Year of Hybrid Experiences”. **Proceedings of the ACM Conference on Human Factors in Computing Systems Extended Abstracts**, 2023.
- [C19] M. Tahaei, M. Constantinides, D. Quercia, S. Kennedy, M. Muller, S. Stumpf, and others. “Human-Centered Responsible Artificial Intelligence: Current & Future Trends”. **Proceedings of the ACM Conference on Human Factors in Computing Systems Extended Abstracts**, 2023.

- [C18] L. Meegahapola, M. Constantinides, Z. Radivojevic, H. Li, D. Quercia, M.S. Eggleston. “Quantified Canine: Inferring Dog Personality From Wearables”. **Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI)**, 2023.
- [C17] I. Sen, D. Quercia, M. Constantinides, M. Montecchi, L. Capra, S. Šćepanović, R. Bianchi. “Depression at work: exploring depression in major US companies from online reviews”. **Proceedings of the ACM on Human-Computer Interaction (CSCW)**, 2022.
- [C16] E. Bondareva, M. Constantinides, M.S. Eggleston, I. Jabłoński, C. Mascolo, Z. Radivojevic, S. Šćepanović. “Stress inference from abdominal sounds using machine learning”. **International Conference of the IEEE Engineering in Medicine & Biology Society (EMBC)**, 2022.
- [C15] M. Constantinides, D. Quercia. “The future of hybrid meetings”. **Human-Computer Interaction for Work (CHIWORK)**, 2022.
- [C14] B.L. Searle, D. Spathis, M. Constantinides, D. Quercia, C. Mascolo. “Anticipatory Detection of Compulsive Body-focused Repetitive Behaviors with Wearables”. **Proceedings of the ACM International Conference on Human-Computer Interaction with Mobile Devices and Services (MobileHCI)**, 2021.
- [C13] J.H. Choi, M. Constantinides, S. Joglekar, D. Quercia. “KAIROS: Talking Heads and Moving Bodies for Successful Meetings”. **Proceedings of the ACM International Workshop on Mobile Computing Systems and Applications (HotMobile)**, 2021.
- [C12] M. Constantinides, S. Šćepanović, D. Quercia, H. Li, U. Sassi, M. Eggleston. “ComFeel: Productivity is a Matter of the Senses Too”. **Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies (UbiComp)**, 2020.
- [C11] C.Y. Qin, M. Constantinides, L.M. Aiello, D. Quercia. “HeartBees: Visualizing Crowd Affects”. **IEEE VIS Arts Program (VISAP)**, 2020.
- [C10] B.A. Aseniero, M. Constantinides, S. Joglekar, K. Zhou, D. Quercia. “MeetCues: Supporting Online Meetings Experience”. **IEEE Visualization Conference (VIS)**, 2020.
- [C9] Y. Cohen, M. Constantinides, P. Marshall. “Places for News: A Situated Study of Context in News Consumption”. **IFIP Conference on Human-Computer Interaction (INTERACT)**, 2019.
- [C8] M. Constantinides, J. Dowell. “A Framework for Interaction-driven User Modeling of Mobile News Reading Behaviour”. **Proceedings of the ACM International Conference on User Modeling, Adaptation and Personalization (UMAP)**, 2018.
- [C7] M. Constantinides, J. Dowell, D. Johnson, S. Malacria. “Exploring Mobile News Reading Interactions for News App Personalisation”. **Proceedings of the ACM International Conference on Human-Computer Interaction with Mobile Devices and Services (MobileHCI)**, 2015.
- [C6] M. Constantinides. “Apps with Habits: Adaptive Interfaces for News Apps”. **Proceedings of the ACM Conference Extended Abstracts on Human Factors in Computing Systems (CHI)**, 2015.
- [C5] M. Constantinides, J. Dowell, D. Johnson, S. Malacria. “Habito News: A Research Tool to Investigate Mobile News Reading”. **Proceedings of the ACM International Conference on Human-Computer Interaction with Mobile Devices and Services (MobileHCI)**, 2015.
- [C4] M. Belk, P. Germanakos, E. Papatheocharous, M. Constantinides, G. Samaras. “Supporting Adaptive Interactive Systems with Semantic Markups and Human Factors”. **IEEE International Workshop on Semantic and Social Media Adaptation and Personalization (SMAP)**, 2012.
- [C3] C. Laoudias, G. Constantinou, M. Constantinides, S. Nicolaou, D. Zeinalipour-Yatzi, C. G. Panayiotou. “The Airplace Indoor Positioning Platform for Android Smartphones”. **IEEE International Conference on Mobile Data Management (MDM)**, 2012.
- [C2] C. Laoudias, G. Constantinou, M. Constantinides, S. Nicolaou, D. Zeinalipour-Yatzi, C. G. Panayiotou. “The Airplace Indoor Positioning Platform”. **International Conference on Mobile Systems, Applications and Services (MobiSys)**, 2012.
- [C1] C. Laoudias, G. Constantinou, M. Constantinides, S. Nicolaou, D. Zeinalipour-Yatzi, C. G. Panayiotou. “A Platform for the Evaluation of Fingerprint Positioning Algorithms on Android Smartphones”. **International Conference on Indoor Positioning and Indoor Navigation (IPIN)**, 2011.

Workshop and Demo Papers

- [W8] H. Verma, M. Constantinides, S. Zhong, A. El Ali, H. Alavi. “SensiBlend: Sensing Blended Experiences in Professional and Social Contexts”. **Proceedings of the ACM International Joint Conference on Pervasive and Ubiquitous Computing and Proceedings of the ACM International Symposium on Wearable Computers (UbiComp-ISWC’21 Adjunct)**, 2021.
- [W7] M. Constantinides, S. Joglekar, D. Quercia. “Retrofitting Meetings for Psychological Safety”. **Proceedings of the ACM IUI Workshops**, 2021.
- [W6] C.Y. Qin, J.H. Choi, M. Constantinides, L.M. Aiello, D. Quercia. “Having a Heart Time? A Wearable-based Biofeedback System”. **Proceedings of the ACM International Conference on Human-Computer Interaction with Mobile Devices and Services (MobileHCI)**, 2020 (demo paper).
- [W5] J. Dowell, M. Constantinides. “Extending the Evaluation Paradigm for Personalisation: A Categorisation Use Case”. **Adjunct Publication of the ACM Conference on User Modeling, Adaptation and Personalization (UMAP)**, 2019.
- [W4] P. Germanakos, M. Kasinidou, M. Constantinides, G. Samaras. “A Metacognitive Perspective of InfoVis in Education”. **Adjunct Publication of the ACM Conference on User Modeling, Adaptation and Personalization (UMAP)**, 2019.
- [W3] M. Constantinides, J. Busk, A. Matic, M. Faurholt-Jepsen, L. Vedel Kessing, J. E. Bardram. “Personalized versus Generic Mood Prediction Models in Bipolar Disorder”. **Proceedings of the ACM International Joint Conference and International Symposium on Pervasive and Ubiquitous Computing and Wearable Computers (UbiComp)**, 2018.
- [W2] M. Constantinides, J. Dowell. “User Interface Personalization in News Apps”. **CEUR UMAP Workshop Proceedings on News Recommendation and Analytics**. 2016.
- [W1] M. Constantinides, G. Constantinou, A. Panteli, T. Phokas, G. Chatzimilioudis, D. Zeinalipour-Yatzi. “Proximity Interactions with Crowdcast”. **Hellenic Data Management Symposium**, 2012.

Patents

- [P4] “A System and Method for Integrating Ethical Values in AI Development”, 2023 (filed).
- [P3] “Privacy-preserving Tracking of Engaging Conversations in Hybrid Group Communications”, 2023 (filed).
- [P2] “A System and Method for Using Non-focus Meeting Periods to Increase Productivity”, 2022 (filed).
- [P1] Virtual Meeting. US Patent 17/213035, 2021.

Book Chapters

- [B1] M. Constantinides, D. Spathis, and S. Yfantidou. “Human Factors and Behavioral Sensing in AI Applications”. **Human-centered AI: A Visual Scientific Quest**, Springer, 2024 (to appear).

X. TECHNICAL SKILLS

- Programming Languages: Python, Java, C/C++
- Web Application Programming: PHP, HTML, CSS, JavaScript
- Databases: Microsoft SQL Server, MySQL, MongoDB
- Operating Systems: Microsoft Windows, Mac, Unix/Linux
- Mobile and Wearable Development: Android, Flutter, Tizen

XI. PROFESSIONAL MEMBERSHIPS

- ACM Member 2015 – present
- IEEE Member 2015 – present
- Cyprus Computer Society (CCS) Member 2012 – present