

Francesco Chiossi

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EDUCATION

LMU MUNICH

PHD IN COMPUTER SCIENCE

2019 - 2023 | Munich, DE

HCUM Group

Focus :Adaptive Interfaces

Mixed Reality

UNIVERSITY OF PADUA

MSc IN APPLIED COGNITIVE PSYCHOLOGY

| 110/110

2015 - 2017 | Padua, IT

Focus: Physiological Computing,

Neurotechnology, Quality-of-Experience

evaluation by quantitative measures

KING'S COLLEGE LONDON

BSc IN NEUROSCIENCE | EXCHANGE

PROGRAM

2015 | London, UK

Focus: Behavioral Neuroscience

UNIVERSITY OF PADUA

BSc IN COGNITIVE AND BIOLOGICAL

PSYCHOLOGY | 105/110

2012 - 2015 | Padua, IT

Focus: HCI, Cognitive Ergonomics,

Artificial Intelligence, Executive Functions

SKILLS

Data Analysis

Python (MNE, scikit, Neurokit) • Matlab • RStudio

Qualitative Methods

Interviews • Focus groups • Questionnaire Scoring

Experimental Design

Designing suitable experiments concerning validity, reliability, and replicability

Project Management & Organisation

Structuring processes • Managing teams • Social Media Managing

Research Tools

User Personas • User journeys • Wireframing

REFERENCES

Prof. Dr. Albrecht Schimdt | Full Professor, LMU Munich

albrecht.schmidt@lmu.de

Prof. Dr. Sven Mayer | Junior Professor, LMU Munich

info@sven-mayer.com

PROFILE

I am a passionate UX researcher at LMU Munich with a background in human factors and neuroscience. I am proficient in both quantitative measures (behavioral and physiological) of user behavior and qualitative research methods. My work currently focuses on multimodal input to design and improve the UX of Mixed Reality adaptive systems.

EXPERIENCE

UX RESEARCHER LMU MUNICH

Oct 2019 - present | Advisors : Albrecht Schmidt & Sven Mayer

- Developing novel input and interaction paradigms for Mixed Reality adaptive interfaces using physiological data (EDA, ECG, EEG), visual and haptic interfaces, automotive UIs
- Defining research hypothesis, leading experimental design and user studies, data collection for 20+ studies, implementing user state detection algorithms
- Leading research projects in teams of 3 to 14 researchers. Hired and developed a team of 7+ professionals. Managed over €100k in research funding.
- Teaching Msc & BsC classes, e.g., Physiological Computing, Engineering for Human Factors, User Interface Design. Prepared course materials and provided written feedback for 400+ students with high ratings.
- Organization and Social Media coverage of lab events, international conferences, and workshops (e.g., Open Lab Day, Internal Doctoral Colloquium)

RESEARCH FELLOW PADUA NEUROSCIENCE CENTER

2018 - 2019 | Advisors : Giorgio Arcara & Patrizia Bisiacchi

- Design of experiments on psychophysiology of cognitive capacity and prospective memory, decision making in endurance athletes
- Data Collection & analysis of physiological, behavioral, and qualitative data
- Design and maintenance of open data research platform
- Teaching Msc & BsC classes, e.g., "Cognitive Electrophysiology" (30+ students).

RESEARCH FELLOW TU BERLIN | NEUROTECHNOLOGY GROUP

2017 | Advisor : Benjamin Blankertz

- Design, data collection & implementation of EEG experiment for evaluating information-seeking interfaces

SELECTED PUBLICATIONS

- [1] A. Huang, P. Knierim, **F. Chiossi**, L. L. Chuang, and R. Welsch. Proxemics for human-agent interaction in augmented reality. *CHI Conference on Human Factors in Computing Systems (CHI '22)*, 2022.
- [2] **F. Chiossi**, L. Haliburton, C. Ou, A. Butz, and A. Schmidt. Short-form videos degrade our capacity to retain intentions: Effect of context switching on prospective memory. *CHI Conference on Human Factors in Computing Systems (CHI '23)*, 2023.
- [3] **F. Chiossi**, T. Kosch, L. Menghini, S. Villa, and S. Mayer. SensCon: Embedding Physiological Sensing into Virtual Reality Controllers. volume 7, page 1–32, New York, NY, USA, sep 2023. Association for Computing Machinery.
- [4] **F. Chiossi**, S. Villa, M. Hauser, R. Welsch, and L. L. Chuang. Design of on-body tactile displays to enhance situation awareness in automated vehicles. *IEEE CIVEMSA '22*, 2022.
- [5] **F. Chiossi**, Y. Turgut, R. Welsch, and S. Mayer. Adapting Visual Complexity Based on Electrodermal Activity Improves Working Memory Performance in Virtual Reality. volume 7, page 1–26, New York, NY, USA, sep 2023. Association for Computing Machinery.