Christoph Kralj, MSc

Main Areas of Research:
Visualization, Data Analysis,
Human Computer Interaction

christoph.kralj@univie.ac.at ✉
+43 664 75110611 📞
Vienna, Austria 📍
christoph.github.io 🌐

EDUCATION

2017 - Now
PhD
Visualization and Data Analysis Research Group
University of Vienna

2013 - 2016
Master of Science in Computational Science
University of Vienna

Master thesis
Visually Supported Modeling for Tag Analysis in the Sciences

2010 - 2013
Bachelor of Science in Earth Sciences
Technical University of Graz

2007 - 2010
Higher education entrance qualification
Wirtschaftsfoerderunginstitut (WIFI)

WORK EXPERIENCE

2018 - Now
Researcher – VisKeyPub Project
Centre of Computational Complex Systems
Technical University Vienna

2017 - Now
University Assistant
Visualization and Data Analysis Research Group
University of Vienna

2007 - 2010
Software Tester
Anton Paar GmbH

Accomplishments
Establishing of a software test workflow, creation of test plans, usability tests, automated tests and enrolment of new software testers

2002 - 2006
Apprenticeship - Electronics Engineering
Anton Paar GmbH

Accomplishments
Apprenticeships certificate: march 2006

SKILLS & COMPETENCES

Programming Languages

- Expert: Javascript/Typescript (ES6, Angular, Aurelia), HMTL/CSS, Python (relevant machine learning and data processing libraries)
- Advanced: C#, Matlab, Java

Skills

- Text Analysis: The full pipeline from preprocessing and crawling to usage through machine learning, text embeddings
- Data Analysis: Through machine learning and visualization methods
- Visualization: Design, analysis and implementation of visualizations based on tasks and user needs
- Interface and Interaction Design: Requirement Analysis, Prototyping, User Evaluation, Effects of Perception and Cognition, Design Principles

Projects

- Improve: In cooperation with dwh GmbH, TU Wien and Medical University Vienna – User driven data analysis and visualization design tailored to the health care and pharmaceutical areas
- VisKeyPub: In cooperation with dwh GmbH and CAS – SIAT (China) – Analysis of scientific literature through machine learning and visualization approaches

Teaching

- Lecturer: Human Computer Interaction - 2018 until Now
- Lecturer: Visualization and Visual Data Analysis - 2018 until Now
- Lecturer: International summer school on "Deep Learning and Visual Data Analysis" - Fall 2018
- Lecturer: Qualifizierungsseminar Visual Analysis and Data Science (FFG Project) - Spring 2019

LANGUAGES

German, English

PUBLICATIONS

- *Mohsen Kamalzadeh, Christoph Kralj, Torsten Moeller, and Michael Sedlmair. 2016. TagFlip: Active Mobile Music Discovery with Social Tags. In Proceedings of the 21st International Conference on Intelligent User Interfaces (IUI '16). ACM, New York, NY, USA, 19-30. DOI=http://dx.doi.org/10.1145/2856767.2856780*
- *Christoph Kralj, Mohsen Kamalzadeh, and Torsten Möller. 2017. TagRefinery: A Visual Tool for Tag Wrangling. In Proceedings of the 2017 CHI Conference on Human Factors in Computing Systems (CHI '17). ACM, New York*, NY, USA, 2928-2939. DOI: https://doi.org/10.1145/3025453.3025868