**Wolfgang G. Jentner, PhD   
Research Associate, Data Institute for Societal Challenges**

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**Education and Training**

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| --- | --- | --- | --- |
| B.Sc. | Computer and Information Science | University of Konstanz, Germany | 2012 |
| M.Sc. | Computer and Information Science | University of Konstanz, Germany | 2016 |
| Ph.D. | Computer and Information Science | University of Konstanz, Germany | 2023 |

**Research and Professional Experience**

**2023 – Present The University of Oklahoma, OK, USA**

Research Associate, Data Institute for Societal Challenges

**2012 – Present Own Business, Germany**

IT Consultant

**2022 – 2023 European Anti-Cybercrime Technology Development Association (EACTDA)**

Technical Committee Member

**2016 – 2023 University of Konstanz, Germany**

Research Associate, Data Analysis and Visualization Group

**2012 - 2015 Hewlett Packard Inc., Palo Alto, CA, USA**

Visiting Researcher

**2011 – 2016 University of Konstanz, Germany**

Research Assistant, Data Analysis and Visualization Group

#### **Representative publications on emissions from oil and gas systems**

1. W. Jentner, G. Lindholz, H. Hauptmann, M. El-Assady, K.-L. Ma, D. A. Keim

Visual Analytics of Co-Occurrences to Discover Subspaces in Structured Data

ACM Transactions on Interactive Intelligent Systems, 2023

1. S. Gogos, L. Oneto, M. Anastasopoulos, D. Anguita, I. Baroni, R. Canepa, S. Petralli, C. Dambra, W. Jentner

DAYDREAMS - Development of Prescriptive Analytics based on Artificial Intelligence for Railways Intelligent Asset Management Systems

Transport Research Arena Conference, 2022

1. M. T. Fischer, S. D. Hirsbrunner, W. Jentner, M. Miller, D. A. Keim, P. Helm

Promoting Ethical Awareness in Communication Analysis: Investigating Potentials and Limits of Visual Analytics for Intelligence Applications

Proceedings of FAcct '22 : 2022 ACM Conference on Fairness, Accountability, and Transparency, 2022

1. R. Sevastjanova, W. Jentner, F. Sperrle, R. Kehlbeck, J. Bernard, M. El-Assady

QuestionComb: A Gamification Approach for the Visual Explanation of Linguistic Phenomena through Interactive Labeling

ACM Transactions on Interactive Intelligent Systems,, 2021

1. M. Kraus, T. Pollok, M. Miller, T. Kilian, T. Moritz, D. Schweitzer, J. Beyerer, D. A. Keim, C. Qu, W. Jentner

Toward Mass Video Data Analysis: Interactive and Immersive 4D Scene Reconstruction

Sensors; Special Issue Selected Papers from the 9th International Conference on Imaging for Crime Detection and Prevention (ICDP-19), 2020

1. M. El-Assady, W. Jentner, R. Kehlbeck, U. Schlegel, R. Sevastjanova, F. Sperrle, T. Spinner, D. A. Keim

Towards XAI: structuring the processes of explanations

Proceedings of the ACM Workshop on Human-Centered Machine Learning, Glasgow, UK, 2019

1. W. Jentner, J. Buchmüller, F. Sperrle, R. Sevastjanova, T. Spinner, U. Schlegel, D. Streeb, H. Schäfer

N.E.A.T. - Novel Emergency Analysis Tool

IEEE Conference on Visual Analytics Science and Technology (VAST Challenge 2019 Grand Challenge), 2019

1. U. Schlegel, W. Jentner, J. Buchmüller, E. Cakmak, G. Castiglia, R. Canepa, S. Petralli, L. Oneto, D. A. Keim, D. Anguita

Visual Analytics for Supporting Conflict Resolution in Large Railway Networks

2019 INNS Big Data and Deep Learning (INNSBDDL 2019), 2019

1. W. Jentner, R. Sevastjanova, F. Stoffel, D. A. Keim, J. Bernard, M. El-Assady

Minions, Sheep, and Fruits: Metaphorical Narratives to Explain Artificial Intelligence and Build Trust

Workshop on Visualization for AI Explainability, 2018

1. W. Jentner, D. Sacha, F. Stoffel, G. Ellis, L. Zhang, D. A. Keim

Making Machine Intelligence Less Scary for Criminal Analysts: Reflections on Designing a Visual Comparative Case Analysis Tool

The Visual Computer Journal, 2018

**Synergistic Activities**

1. Integration Lead: Resilient Supply and Demand Networks. Responsible for integrating all analysis and visual analytics methods (DARPA/USA).
2. Technical & Scientific Coordinator: PIPP: Predictive Intelligence for Pandemic Prevention (NSF/USA).
3. Technical & Scientific Coordinator: VIKING: Trusted Artificial Intelligence for Police Applications. Responsible for all scientific and technical R&D in the project (BMBF/Germany).
4. Technical & Scientific Coordinator: PEGASUS: Police acquisition and analysis of heterogeneous mass data to combat organized crime structures (BMBF/Germany).
5. Integration Lead: VICTORIA: Video analysis for Investigation of Criminal and TerrORIst Activities (EU Horizon 2020/Europe)
6. Integration Lead: VALCRI: Visual Analytics for Sense-making in CRiminal Intelligence analysis (EU Funding Programme 7/Europe)