

Curriculum Vitae

Personal Information

Name Prof. Dr. **Jürgen Bernard**
Address Seestrasse 152, 8700 Küsnacht, Switzerland
Born January 21, 1981, Lohr (Bavaria), Germany
Nationality German
Citizenship Switzerland
Family Wife: Carina
Children: Maximilian (4), Marie (1)
Position Assistant Professor, Group Head
Affiliation University of Zurich, Department of Informatics
Digital Society Initiative
Group Interactive Visual Data Analysis Group
Contact ph: +41-79-3098079
email: mail@juergen-bernard.de
web: <https://www.juergen-bernard.de>
orcid: 0000-0001-8741-9709



Main Research Focus

Information Visualization (Vis), Visual Analytics (VA), Interactive Machine Learning (IML)

Education

2019 **Zertifikat Hochschullehre**
Deutsche Gesellschaft für Hochschuldidaktik, Germany
Higher Education Teaching Certificate, 3 years with modules

2015 **PhD in Computer Science**
TU Darmstadt / Fraunhofer IGD, Germany
Dissertation: Exploratory Search in Time-Oriented Primary Data
Grade: 1 - summa cum laude

2009 **Diplom (MSc) in Computer Science**
TU Darmstadt, Germany
Grade: 1 - sehr gut

2000 **Abitur/Matura** (German High School Degree)
Franz-Ludwig von Erthal Gymnasium, Lohr am Main, Bavaria, Germany

Work Experience

- 09/2020–*present* **Assistant Professor (non-tenure)**
University of Zurich (UZH), Computer Science, Zurich, Switzerland
Focus: Interacting with Data
- 09/2020–*present* **Group Leader**
Interactive Visual Data Analysis (IVDA) Group, at UZH
- 09/2020–*present* **DSI Professor**
Digital Society Initiative (DSI), University of Zurich
Focus: Digital Transformation
- 06/2019–12/2020 **Postdoctoral Research Fellow**
University of British Columbia (UBC), Department of Computer Science
(with Prof. Dr. Tamara Munzner), Vancouver, Canada
Focus: Interactive Machine Learning, Design Studies, Health Data Analytics
- 01/2016–12/2017 **Self-Employed Data Scientist**
Design and Development of Visual Analytics Solutions, Darmstadt, Germany
- 02/2016–05/2019 **Postdoctoral Research Fellow**
Interactive Graphics Systems Group (GRIS), TU Darmstadt, Germany
Lead: Visual-Interactive Machine Learning group
- 01/2012–01/2016 **Researcher (PhD Student)**
Fraunhofer Institute for Computer Graphics Research IGD, Germany
Focus: Exploratory Search, Time Series Analysis, User-centered Design
- 01/2010–12/2011 **PhD Student**
TU Darmstadt, Germany
- 01/2007–12/2009 **Research Student**
TU Darmstadt, Germany
- 07/2002–10/2008 **Working Student, Software Engineer (10weeks/year)**
Bosch AG, Lohr am Main, Germany
- 05/2001–12/2005 **Self-Employed, Startup**
Web Hosting Service, Darmstadt, Germany
- 09/2000–06/2001 **Civilian Service (Male Nurse)**
Geriatric Nursing Center in Lohr am Main, Germany
- 03/1999–07/2007 **Self-Employed, Startup**
Vinyl Record Store, Lohr am Main, Germany
- 07/1998–09/2001 **Working Student (5weeks/year)**
Mannesmann Rexroth AG, Lohr am Main, Germany

Professional Services

- Memberships *Faculty member* of the Digital Society Initiative (DSI), Zürich (since 09/2020)
ACM member (since 2021)
IEEE member (since 2013)
EG member (2017-2019, since 2022)
DHV member (since 2018)
GI member (since 2020)
GI-VIS member (since 2021)
- Organization *1 × General Chair* of the **VAHC** (IEEE/ACM VIS): Workshop on Visual Analytics in Health Care (2023)
2 × Steering Committee of the **VAHC** (IEEE/ACM VIS): Workshop on Visual Analytics in Health Care (2021, 2023)
4 × Organizing Committee of the **VAHC** (IEEE/ACM VIS): Workshop on Visual Analytics in Health Care (2015, 2017, 2019, 2021)
3 × Organizing Committee of the **EuroVis** (Eurographics, EG): Conference on Visualization, Co-located Workshops Chair (2021, 2022, 2023)
1 × Steering Committee of the **EuroVA** (Eurographics, EG): Workshop on Visual Analytics (2023)
2 × Organizing Committee of the **EuroVA** (Eurographics, EG): Workshop on Visual Analytics, Co-Organizer (2021, 2022)
2 × Guest-Editor: Special Issue of **EuroVA** in The Computers and Graphics Journal (C&G) (2021, 2022)
- Committees *34 × Program Committee*
Main conferences: **IEEE VIS** Visualization & Visual Analytics (2022), **IEEE VAST** Visual Analytics Science and Technology (2018, 2019, 2020), **EG EuroVis** Conference on Visualization (2021, 2022, 2023), **VMV** EG Symposium on Vision, Modeling, and Visualization (2018, 2019, 2020, 2021, 2022) **IVAPP** EG Conference on Information Visualization Theory and Applications (2017, 2018) **IEEE VIS** Conference on Advances in Visualization and Visual Analytics, Short Papers (2020, 2021), **EG EuroVis** Conference on Visualization, Short Papers (2017, 2018, 2019, 2020)
Other conferences, symposia, and workshops: **EuroVA** EG EuroVis Workshop on Visual Analytics (2023), **VAHC** IEEE VIS Workshop on Visual Analytics in Health Care (2015, 2017, 2019, 2021), **BELIV** IEEE VIS Workshop on Evaluation and Beyond - Methodological Approaches for Vis (2018, 2020, 2022), **VDS** ACM KDD/IEEE VIS Visualization in Data Science (VDS)

(2022), **VISxAI** IEEE VIS Workshop on Visualization for AI Explainability (2018, 2019, 2021) **BigVIS** EDBT/ICDT Workshop on Big Data Visual Exploration and Analytics (2023) **TIME** LIPIcs International Symposium on Temporal Representation and Reasoning (2021)

Peer Reviewing Overall, more than *100 reviews*

Grant proposals: DFG (Germany), FWF (Austria), DSI (UZH, Zürich)

Visualization: IEEE TVCG Journal, EG CGF Journal, EG CGF Journal (S.T.A.R), Elsevier C&G Journal, ACM TOG Journal, SAGE IV Journal, IEEE VIS, IEEE VIS (short), IEEE InfoVis, IEEE InfoVis (short), IEEE VAST, EG EuroVis, EG EuroVis (short) EG EuroVis (S.T.A.R), EG EuroVis (short), EG VMV, IEEE PacificVis, IEEE/ACM VAHC, IEEE VIS BELIV, IEEE VIS VISxAI, IEEE VIS VISReg, IEEE VIS VDS, EG IVAPP, PG Pacific Graphics, EG PG&V

Other areas: ACM TiiS Journal, ACM CHI, IEEE Access Journal, MDPI Algorithms Journal, ACM Multimedia Journal, Neurocomputing Journal, Springer IJoDL Journal, LIPIs TIME

Awards

Personal

EuroGraphics Young Researcher Award
at EuroGraphics (EG), Reims, FR, 2022.

EuroVis Young Researcher Award
EuroVis (EG), Zurich, CH, 2021.

Dirk Bartz Prize Visual Computing in Medicine
at Eurographics (EG), Lyon, France, 2017

Hugo-Geiger Prize Excellent Dissertations
by Fraunhofer Gesellschaft, München, Germany, 2016

GI Prize for Excellent Dissertations Nominee by Gesellschaft für Informatik (GI), Dagstuhl, Germany, 2016

Best Diploma Thesis Award by Fraunhofer IGD, TU Darmstadt, Darmstadt, Germany, 2010

Papers

Best Paper Award: IRVINE – A Design Study on Analyzing Correlation Patterns of Electrical Engines
at IEEE VIS, New Orleans, USA, 2021.

Best Paper Award: LFPeers: Temporal Similarity Search in Covid-19 Data
at EuroVA, Zurich, CH, 2021.

Learning and Teaching in Co-Adaptive Guidance for Mixed-Initiative Visual Analytics
at EuroVA, Norrköping, SWE, 2020.

Honorable Mention for Best Paper: Visual Analysis of Degree-of-Interest Functions to Support Selection Strategies for Instance Labeling
at EuroVA, Porto, POR, 2019.

Honorable Mention for Best Paper: Personalized Visual-Interactive Music Classification
at EuroVA, Brno, CZR, 2018.

Best Paper Award: Visual-Interactive Similarity Search for Complex Objects by Example of Soccer Player Analysis
at IVAPP/VISGRAPP, Porto, POR, 2017.

Honorable Mention for Best Paper: Visual-Interactive Segmentation of Multivariate Time Series
at EuroVA, Groningen, NED, 2016.

Best Paper Award: Visual Access to an Agent-based Simulation Model to Support Political Decision Making
at i-KNOW, Graz, AUT, 2014.

Best Paper Award: Content-based layouts for exploratory metadata search in scientific research data
at JCDL, Washington, USA, 2012.

Contribution

Replicability Stamp Award
for a TVCG Journal Article with a complete open-source implementation

4th most-contributing Author of EuroVA all Time
at the 10th Anniv. of EuroVA 2019 – for 8 Publications (2010–2019)

2 × Best Industrial Project Award (2014, 2016)
Fraunhofer IGD, Darmstadt, GER.
for outstanding application-driven research in industry projects.

2 × Best Paper Award (2010, 2016)
Fraunhofer IGD, Darmstadt, GER.
for outstanding applied research papers published in the last year.

3 × Honorable Mention for Best Paper Award (2011, 2014, 2019)
Fraunhofer IGD, Darmstadt, GER.
for outstanding applied research papers published in the last year.

Teaching

Datenlotsen Price – Best Student Thesis of Christian Ritter (Supervision)
at TU Darmstadt, GER, 2018

Participation

Awarded for the Heidelberg Laureate Forum (HLT)
Heidelberg Laureate Forum, Heidelberg, GER, 2017

Awarded for the Global Young Researchs Summit (GYSS)
Global Young Researchs Summit, Singapore, 2016

Funding

- Univ. of Zurich *Principal Investigator* in **ORD-Xplore**: Finding Commonalities Across Heterogeneous ORD Collections.
swissuniversities, Switzerland, 01/2023–06/2024 (150,000 CHF)
- Principal Investigator* in **Roche**: Interactive Particle Root Cause Analysis.
Roche AG, Rotkreuz, Switzerland, 11/2022–12/2023 (10,000 CHF)
- Principal Investigator* in **IVIE-Docs**: Interactive Clustering and Labeling of Heterogeneous Text Document Collections.
Acodis AG, Winterthur, Switzerland, 03/2022–11/2022 (5,000 CHF)
- Principal Investigator* in **IAS**: Interaktive Analyse von Sensordaten.
BMW AG, München, Germany, 07/2021–12/2022 (94,600 €)
- Participating Researcher* in **DSI-Libraries**: Expl. of Open Research Data.
Digital Society Initiative (DSI), Switzerland, 01/2023–12/2023 (10,000 CHF)
- Participating Researcher* in **DSI-Health**: Creating an application for remote monitoring of patient/athlete activity through collaborative design.
Digital Society Initiative (DSI), Switzerland, 01/2023–12/2023 (10,000 CHF)
- Fully-funded PhD position* in **xAI4R**: xAI for Item Rankings.
Digital Society Initiative (DSI), Switzerland, 09/2023–08/2027 (188,160 CHF).
Ibrahim al Hazwani started 09/2022
- UBC Vancouver *Awarded Scholarship* by **DSI**: Post-doctoral Matching Fund Application.
Data Science Initiative, University of British Columbia (UBC), Canada.
with Prof. Tamara Munzner(UBC), 07/2021–06/2022 (40,000 CAD)
- TU Darmstadt *Awarded Scholarship* by **DAAD**: German Post-Doctoral Exchange (Canada).
Deutscher Akademischer Austauschdienst, Bonn, Germany.
with Prof. Tamara Munzner(UBC), 07/2021–06/2022 (19,800 €)
- Awarded Exchange Program* by **TU Graz & TU Darmstadt**: Collaborative Exchange of Excellence, between TU Graz and TU Darmstadt (to Austria).
with Prof. Tobias Schreck (TU Graz), 07/2021–06/2022 (10,000 €)
- Participating Researcher* in **VISSECT**: Visual-Interactive Segmentation and Labeling of Multivariate Time Series. Project No. I 2850. Deutsche Forschungsgemeinschaft, Germany, 2016–2019 (742,000 €)
- Participating Researcher* in **Progether**: Your Prostate Cancer Network. Patient-centered Health Platform. Industry project funded by Progether, Oslo, Norway, 2015–2016 (30,000 €)
- Participating Researcher* in **UKE-II**: Visual-Interactive Stratification of Patient Cohorts. Industrial research project funded by Universitätsklinikum Hamburg Eppendorf (UKE), Germany, 2015–2016 (30,000 €)

Participating Researcher in **UKE**: Visual-Interactive Analysis of Cancer Patient Histories. Industrial research project funded by Universitätssklinikum Hamburg Eppendorf (UKE), Germany, 2013–2014 (30,000 €)

Participating Researcher in **BT**: Telecommunication Network and Big Data Analysis. Industrial research project funded by British Telecom (BT), Ipswich, United Kingdom, 2013–2015 (30,000 €)

Participating Researcher in **VisInfo**: Visual Access to Research Data. Funded by Leibnitz Gemeinschaft/Leibniz Foundation (WGL), Germany, 2010–2012 (600,000 €)

Invited Speaker Talks (no paper presentations)

- 2023* **Interactive Visual Data Analysis**
Digital Society Initiative (DSI), Zurich, CH
- 2022 **Data Analysis - Challenges and Opportunities for IVDA**
Robotics and Perception Group, Zurich, CH
- 2022 **Human-Centered Data Analysis in Finance**
Forschungsgruppe Financial Economics, Zurich, CH
- 2022 **Interaktion und Raum: DSI-Perspektiven**
Kolloquium des UFSP Sprache und Raum, Zurich, CH
- 2022 **Interacting with Data**
University of Zurich (UZH), Inaugural Lecture, Zurich, CH
- 2021 **Problem-Driven and Human-Centered Visual Analytics**
University of Rostock, GER
- 2021 **Interactive Data Science with the Human-in-the-Loop**
BMW, Munich, GER
- 2020 **Interactive Visual Data Analysis**
University of Zurich, CH
- 2019 **Enhancing Interactive Machine Learning**
Johannes Kepler University Linz, AUT
- 2019 **Enhancing Human Centered and Interactive Machine Learning**
Aarhus University, Denmark
- 2019 **Enhancing Human-Centered Machine Learning with VA**
Visual Computing Forum, University of Bergen, Norway
- 2019 **Enhancing Interactive Data Science with Visual Analytics**
University of Rostock, GER
- 2019 **Visual-Interactive Data Science**
University of Zurich, CH

- 2018 **Transparent Machine Learning with Visual Analytics**
VIS in Practice, IEEE VIS, Berlin, GER
- 2018 **Visual-Interactive Machine Learning**
TU Graz, AUT
- 2018 **Visual-Interactive Data Science**
City, University of London, UK
- 2018 **Visual-Interactive Machine Learning**
University of Konstanz, GER
- 2018 **Interactive Visual Data Science – Solutions to Data Labeling**
University of Trier, GER
- 2018 **Data Visualization and Visual Analytics**
Graduate School Computational Engineering (CE), TU Darmstadt, GER
- 2018 **Machine Learning with the User-in-the-Loop**
VRVis, Center for Virtual Reality and Visualization, Vienna, AUT
- 2018 **Visual-Interactive Machine Learning for Time-Oriented Data**
University of Konstanz, GER
- 2017 **Visual Analytics of Clinical Healthcare Data for Prostate Cancer**
IEEE VIS, Tutorial, Phoenix, AZ, USA
- 2017 **Data Quality, a Remaining Challenge**
IEEE VIS, Tutorial Phoenix, AZ, USA
- 2017 **Visual Computing for Big Data Analysis in Prostate Cancer**
Dirk Bartz Price Talk, Eurographics, Lyon, France
- 2017 **Exploratory Search in Time-Oriented Data**
Vienna University of Technology, AUT
- 2017 **Visual Analytics meets Machine Learning**
St. Poelten University of Applied Sciences, AUT
- 2016 **Visual Analytics meets Human Motion Analysis**
University of Bonn, GER
- 2016 **Explorative Suche in Zeitbasierten Primordaten**
Gesellschaft für Informatik (GI), Dagstuhl, GER
- 2015 **Exploratory Search in Time-Oriented Primary Data**
PhD Defense, University of Darmstadt, GER
- 2015 **Relation Seeking between Time Series Data and Multivariate Data**
Artificial Intelligence (AI), Cambridge, United Kingdom
- 2013 **Visual Analysis of Time-oriented Data**
British Telecom, Ipswich, United Kingdom

- 2013 **Visual Analysis of Time-oriented Data**
Artificial Intelligence (AI), Cambridge, United Kingdom
- 2012 **Content-based vs. Metadata-based Search and Analysis**
Research Worksop, University of Konstanz, GER
- 2011 **Visual Access to Time-Oriented Scientific Primary Data**
Deutsches Klimarechenzentrum (DKRZ), Hamburg, GER
- 2010 **Visualization and Search Approaches for Time-Oriented Scientific
Primary Data**
DataCite Workshop, Hannover, GER

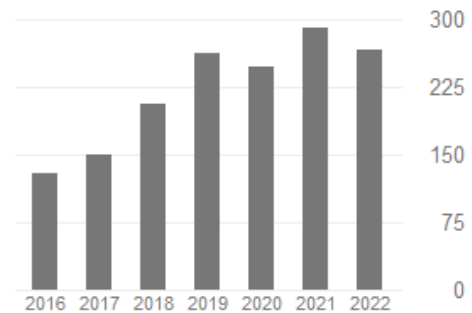
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Publications

Publications and Research Network

Publication Statistics

Journal	27 peer-reviewed journal articles.
Conference	26 peer-reviewed conference papers.
Workshop	30 peer-reviewed workshop papers.
Editor	2 proceedings/special issues editor.
Talks	37 invited talks (no conferences).
No. of citations	1918 overall, 1280 since 2018*.
h-index	24 overall, 20 since 2018*.
i10-index	47 overall, 34 since 2018*.



* based on Google scholar (Jan 05, 2023)

Citations by year*.

Five Most Important Publications

Copies of papers most representative for my work can be found at: <https://juergen-bernard.de>

[J12] VIAL: a unified process for visual interactive labeling
Bernard, J., Zeppelzauer, M., Sedlmair, M., Aigner, W. *The Visual Computer (TV CJ)* pp. 1189-1207, (2018). doi: 10.1007/s00371-018-1500-3 81 citations

This TVCJ Journal publication proposes VIAL methodology for interactive data labeling which in my community is deeply connected to my name. Together with my collaborators (M. Sedlmair, M. Zeppelzauer), we characterize human-machine collaboration for data labeling challenges in six steps forming an iteration of the incremental data labeling process.

[J11] Comparing Visual-Interactive Labeling with Active Learning: An Experimental Study
Bernard, J., Hutter, M., Zeppelzauer, M., Fellner, D., Sedlmair, M. *IEEE Transactions on Visualization and Computer Graphics (TVCG)* pp. 298-308, (2018). doi: 10.1109/TVCG.2017.2744818 128 citations

This TVCG Journal publication is a pioneer work for interactive data labeling, as an extension to classical active learning. The publication opened the way for data labeling approaches in the visualization community and was one important milestone for me and my collaborators (M. Sedlmair, M. Zeppelzauer) to propose the VIAL (Visual-Interactive Labeling Methodology).

[J04] MotionExplorer: Exploratory Search in Human Motion Capture Data
Bernard, J., Wilhelm, N., Krüger, B., May, T., Schreck, T., Kohlhammer, J. *IEEE Transactions on Visualization and Computer Graphics (TVCG)* pp. 2257-2266, (2013). doi: 10.1109/TVCG.2013.178. 109 citations

Motion Explorer is one of my first collaborative and interdisciplinary design studies, my first interactive data analysis system for the search and exploration of human motion capture data, and one of my primary use cases used in my PhD Thesis. Also the Motion Explorer is my first publication in the TVCG Journal, the top reference for Visualization researchers.

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Publications

- [P08] Content-based layouts for exploratory metadata search in scientific research data
Bernard, J., Ruppert, T., Scherer, M., Kohlhammer, J., Schreck, T. *ACM/IEEE-CS Conference on Digital Libraries*, ACM pp. 139-148, (2012). doi: 10.1145/2232817.2232844. Best Paper Award at JCDL. 37 citations

The paper represents my first best paper award entry, here on open research data in the digital libraries community. The main contribution is an interactive visual technique to summarize and explore large collections of open research data. Exploratory navigation of users in the data space to discover interesting relationships between data items.

- [J01] Visual Cluster Analysis of Trajectory Data with Interactive Kohonen Maps
Schreck, T., **Bernard, J.**, von Landesberger, T., Kohlhammer, J. *Information Visualization, Palgrave Macmillan* pp. 14-29, (2009). doi: 10.1057/ivs.2008.29. 228 citations

The paper presents the intellectual contributions of my Master Thesis that made it into a Class A Journal article. We present a visual analytics white-box approach for a clustering neural network. Whitebox integration is provided for the entire learning process from initialization, to parameterization, to training observation, to result analysis, to re-training and iterative refinement.

* based on Google scholar (Jan 05, 2023)

Co-Authors (selection)

Professors	Kohlhammer, J., Schreck, T., Sedlmair, M., Zeppelzauer, M., Keim, D., Fellner, D., von Landesberger, T., Schlomm, T., Munzner, T., Kuijper, A., Miksch, S., Krüger, B., Adam, M., Tennstedt, P., Loeb, S., Tilki, D., Sens, I., Andrews, K., Sourin, A., Ruddle, R., Schumann, H., Aigner, W., Behrisch, M., Spott, M., Bustos, B., Beck, F., Huang, E., Kraaij, W., Neerincx, M., Streit, M., Schmid, U., Klein, R., Preim, B., Fischbach, K.,
PhD	May, T., Ruppert, T., Steiger, M., Scherer, M., ⁸ El-Assady, M., Bremm, S., Vögele, A., Bögl, M., Mittelstädt, S., Bors, C., Gschwandtner, T., Koepler, O., Chegini, M., Eirich, J., Röhlig, M., König-Langlo, G., Sieger, R., Jäckle, D., Brase, J., Strobelt, H., Alsallakh, B., Eichner, C., Altenhofen, C., Agarwal, S., Stoffel, F., Shao, L., Zurloh, C., Koldijk, S., Waldner, M., Wanner, F., Fischer, K., Hinterreiter, A., Wang, Y., Nazemi, K., Widmer, S., Davey, J., Liu, Z., Staab, M., Runnwerth, M., Sacha, D., Daberkow, D., Wesarg, S.,
BSc, MSc	Hutter, M., Lücke-Tieke, H., Sessler, D., Bannach, A., Wilhelm, N., Sperrle, F., Schader, P., Lehmann, M., Pehrke, D., Sevastjanova, R., Schmid, J., Dobermann, E., Ulmer, A., Ritter, C., Hazwani, I., Thum, S., Cibulski, L., Jentner, W., Jeitler, A., Müller, M., Burmeister, J., Beckmann, R., Sachdeva, M., Blaga, C., Schäfer, H., Peiris, Y., Grossmann, N., Goroll, O., Retz, R., Chegini, F., Pfeifer, H., Reinemuth, H., Graner, L.,
Students	Barth, C.,

Teaching Experience

Courses

- Univ. of Zurich $2 \times$ *Interactive Visual Data Analysis* (Lecture 3ECTS, Exercise 3ECTS, 2021-2022, fall term), main organizer and teacher, MSc-level (approx. 120 students)
- $2 \times$ *Fundamentals of People-Oriented Computing* (Lecture, ECTS, 2021-2022, fall term), co-teacher, supervisor, MSc-level (approx. 10 students)
- $2 \times$ *Interactive Visual Data Analysis* (Seminar, 3ECTS, 2021-2022, spring term), main organizer, teacher, and supervisor, BSc/MSc-level (24 students)
- $2 \times$ *Digital and Mobile Health* (Seminar, 3ECTS, 2021-2022, spring term), main organizer, teacher, and supervisor, MSc/PhD-level (24 students)
- $5 \times$ *Masters Project*, (Lab Course, 15ECTS, 2020-2022, every term), supervisor, MSc-level practical lab course (11 students in total)
- $1 \times$ *Independent Study*, (Lab Course, 3/6/9ECTS, 2022), supervisor, MSc-level (3 students)
- $1 \times$ *Masters Basismodul*, (Lab Course, 6ECTS, 2021), supervisor, MSc-level (1 student)
- TU Darmstadt $2 \times$ *User-Centered Design in Visual Computing* (Lecture, 3ECTS, SS 2017, SS 2018), main organizer and teacher, MSc-level (approx. 100 students)
- $3 \times$ *Information Visualization and Visual Analytics* (Exercise, 3ECTS, WS 2011/12, WS 2016/17, WS 2018/19), co-organizer and teacher, MSc-level (approx. 80 students)
- $16 \times$ *Visual Computing Lab* (Lab Course, 6ECTS, WS2010/11–SS 2019, every term), supervisor, MSc-level practical lab course (27 students in total, 13 students with joint publication afterwards)
- $9 \times$ *Visual Analytics Seminar* (Seminar, 3ECTS, SS2010–SS2018, summer term), supervisor, MSc-level, (ca. 10 students in total)

Hands-on Student Supervision (★ publication(s), including student co-authorship)

- PhD (4) Ibrahim al Hazwani (ongoing) ★, Gabriela Morgenshtern (ongoing) ★, Madhav Sachdeva (ongoing) ★, Clara-Maria Barth (upcoming) ★
- BSc, MSc (14) Andrea Meier (MSc), Maximilian Tornov(MSc), Yasara Peiris(MSc) ★, Raphael Beckmann(MSc) ★, Yves Rutishauser(MSc), Jenny Schmid(MSc) ★, Markus Lehmann(MSc) ★, Heiko Reinemuth(MSc), Maximilian Müller(MSc), Christian Ritter(BSc) ★, David Sessler(BSc) ★, Eduard Dobermann(MSc) ★, David Sessler(MSc), Alex Ulmer(MSc) ★

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Teaching Experience

- Labs Studies (35) Didem Durukan, Clara-Marina Barth ★, Simon Hurwitz, Andrea Meier ★, Eduard Čuba ★, Yasara Peiris ★, Kevin Streiter, Clara-Marina Barth ★, Dominique Hässig, Philipp Schader ★, Markus Lehmann ★, Martin Müller ★, Maximilian Moller, Heiko Reinemuth ★, Hendrik Pfeifer ★, Faris Abraha, Simon Schimmels, Hendrik L.-Tieke ★, Benedict Jahn, David Sessler ★, Aaron Hochlonder, Lukas Graner ★, Christian Ritter ★, Robert Heimbach, Eduard Dobermann ★, Benedict Jahn, Saskia Koldijk ★, Peter Sheldrik, Tobias Stoll, Oliver Goroll ★, Alex Ulmer ★, Nils Wilhelm ★, Jan Riemann, Martin Weigel, Michael Stoica,
- Student Workers (16) Shreedhar Govil, Madhav Sachdeva ★, Clara-Maria Barth ★, Jenny Schmid ★, Cristian-Ioan Blaga ★, Vincent Jung, Raphael Beckmann ★, Christian Ritter ★, Marco Hutter ★, Eduard Dobermann ★, David Sessler ★, Alex Brakowski, Florian Ammon, Habib Saissi, Annika Beifler, Abdulghani Alshadadi,

Professional Development: Higher Education Teaching Certificate

- 2019 **Teaching Portfolio and Reflection on Teaching**
Written Report (99 pages, available on request), Darmstadt, Germany
- 2019 **Expert-Guided Teaching Project**
Fraunhofer IGD and Campus Lichtwiese, Darmstadt, Germany
- 2018 **Reflection on Teaching Workshops and Transfer to own Teaching**
Written Report
- 2018 **Teaching International Students**
HDA Darmstadt, Germany
- 2018 **Visualization Techniques with Flip Charts**
Ingenium (Young Researchers at TU Darmstadt) Darmstadt, Germany
- 2018 **Competence-Oriented Teaching**
HDA Darmstadt, Germany
- 2018 **Motivating Students in Academia**
HDA Darmstadt, Germany
- 2018 **Supervision of Student Theses**
HDA Darmstadt, Germany
- 2018 **Guided Reflection on own Teaching Philosophy**
HDA Darmstadt, Germany
- 2018 **Expert Evaluation of own Teaching Methods II**
TU Darmstadt, Germany
- 2017 **Expert Evaluation of own Teaching Methods I**
TU Darmstadt, Germany

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Teaching Experience

- 2017 **Cooperative Advice Coaching in Teaching Practice**
HDA Darmstadt, Germany
- 2017 **Teaching Work Shadowing and Evaluation**
HDA Darmstadt, Germany
- 2017 **Peer Feedback Training with Online Scenarios**
HDA Darmstadt, Germany
- 2017 **Enhancing Students towards Self-Organized Learning and Working**
HDA Darmstadt, Germany
- 2017 **Effective Teaching – Basics PII**
HDA Darmstadt, Germany
- 2016 **Effective Teaching – Basics P1**
HDA Darmstadt, Germany