

1. Current Position

Senior researcher at the Visualization and MultiMedia Lab, May 2019
Department of Informatics, University of Zurich (UZH).

- (I) **Co-Principal Investigator** - in the Swiss National Science Foundation (SNSF) SPIRIT Grant “*UnWeather Vizard: Uncertainty Visualization and Analysis of High-Resolution Numeric Weather Forecasts*”.
- (II) **Senior researcher** - in the SNSF Sinergia project “*Narratives from the long tail: Transforming access to audiovisual archives*”, in collaboration with EPFL and University of Amsterdam.
- (III) **Chefentwicklerin Interaktive KI** - in the project “*ALVA: Automated Learning and Visualization of Autistic features*” for the study and development of deep learning and visual analytics methods to classify behaviour patterns of children with autism. This project is a collaboration among the UZH, University Hospital for Psychiatry Basel, and the FIAS (Short-Term and Highly Intensive Early Intervention) center. Funded by Hasler Stiftung and Swiss Seaside Foundation.

2. Education

PhD in Computer Science, University of Buenos Aires (UBA), Argentina. 2009–2016
Software Engineer - Worked at several companies as Software Developer and Software Engineer. 2001–2008
Diploma in Computer Engineering, University of Buenos Aires, Argentina. 1996–2005

3. Academic Experience

Lecturer in Computer Science (**Tenure**) - appointed at the College of Science, Swansea University, Swansea, United Kingdom. May 2019
Postdoctoral fellow at the Data Analysis and Visualization group, University of Konstanz, Germany. 2016–2019
Full-time research and teaching assistant, University of Buenos Aires, Argentina. 2012–2016
Research assistant fellow, University of Buenos Aires, Argentina. 2011
Research visitor at Institute of Visual Computing & Human-Centered Technology, TU Wien, Austria. (several stays) 2011 - 2022
Research exchange student (Erasmus Mundus), Friedrich-Schiller-Universität Jena, Germany. 2011
Research assistant fellow, CONICET (National Research Council of Argentina). 2009–2010
Research assistant at CITEDEF, Institute of Scientific and Technological Research of the Army Force, Argentina. 2008–2009

4. Industry Experience

Data Vis Scientist at FIAS-Therapiemethode sowie zum Therapiezentrum (NGO), Switzerland. 2022-Ongoing
Data Vis Scientist at The Right Livelihood Award Organization (NGO), Switzerland. 2021-2022
Software engineer at various software development companies: 2004–2007

- Huddle Group S.A., Argentina.
- Redynet Group S.A., Argentina.
- EDS S.A. for Siderar/Techint, Argentina.

Software developer at various software development companies: 2001–2004

- Recursos Action S.A., for Repsol YPF.
- CODE S.A.
- RMyA S.A., Argentina.

5. Mentorship Activities

Master thesis:

- Mr. Joe Müller (UZH) August 2023
Topic: “VisKnowsBest: A Web Catalogue of Visualization Guidelines and Best Practices”
- Ms. Dominique Hässler (UZH) December 2022
Topic: “Visual Analysis of Weather Discoverers’ Networks”
- Ms. Melike Çiloglu (UZH) September 2022
Topic: “Unveiling the Inner Structures of the Montreux Jazz Music Festival”

- Mr. Uensal Satan (UZH) July 2022
Topic: "OIC - Visual Patterns for Runners of One of a Kind"
- Mr. Sajan Srikugan August 2021
Topic: "VisGuidesExplorer - A Comprehensive and Semi-Automatic Study of Visualization Guidelines"
- Mr. Ananya Pandya (UZH) July 2021
Topic: "Towards Citizen-driven Visual Design of Weather Forecast Visualizations based on cognitive science"
- Ms. Nida Cilasun (University of Konstanz) February 2020
Topic: "eBird Visual Analytics: Understanding Uncertain and Contradictory Reports from Birders".
- Mr. Leandro Pelorosso (University of Buenos Aires) August 2018
Topic: "Visualization of Probabilistic Forecasts for Decision Making".
- Mr. Michael Hundt (University of Konstanz) April 2018
Topic: "Visual Analysis of Geo-echo Chambers and Social Media for Journalism".

Advisory of Master Project's students (16 students)

2019–2023

at IFI, UZH ranging from geovisualization to visual analytics topics.

6. Teaching Duties

Course Developments

- UZH IFI Seminar :“Seminar Best Practices and Guidelines for Visualization (BINFS161)” HS21, HS22, HS23
- UZH Film Research Group Seminar, P-8: Projekt DISK4U (Digital Skills for You):
“Visual Analytics for Digital Humanities” HS21, HS22
- Design of the curriculum for the course “Data Visualization Concepts”
at the University of Zurich, Switzerland. HS19
- Design of the curriculum for the course “Information Visualization”
at the Data Mining Master at the University of Buenos Aires, Argentina. 2016

Courses Taught and Currently Teaching

- IFI Seminar :“Seminar Best Practices and Guidelines for Visualization (BINFS161)”
at the University of Zurich, Switzerland. HS21, HS22
- IFI Seminar “Seminar in Graphics and Multimedia (BINFS130, MMINFS530)”
at the University of Zurich, Switzerland. HS21
- DSI Seminar “Interdisciplinary Reading Seminar”
at the Digital Society Initiative, University of Zurich, Switzerland. SS20
- Lecturer in the course “Data Visualization Concepts”
at the University of Zurich, Switzerland. HS19, HS20, FS22
- Lecturer in the course “Information Visualization”
at the University of Konstanz, Germany. WS 16/17, WS 18/19, WS 17/18
- Lecturer in the course “Geographic Information Systems”
at the University of Konstanz, Germany. SS18, SS17,
- Lecturer in the course “Information Visualization”
at the Data Mining Master at the University of Buenos Aires, Argentina. First Semester 2016
- Lecturer in the course “Informatics 1”
at the Catholic University of Buenos Aires, Argentina. 2013–2014
- Teaching assistant in the course “Algorithms and Data Structures I”
at the University of Buenos Aires, Argentina. 2012–2016
- Teaching assistant in the course “Software Engineering 1”
at the University of Buenos Aires, Buenos Aires, Argentina. 2009–2010

Institutional Responsibilities

- Delegate representative for the Post-Docs and Senior Assistants
at the Department of Informatics, University of Zurich 2020–Ongoing
- Representative of the Equal Opportunity Officer for the application process
of the W1 professorship “Virtual Reality”, University of Konstanz, Germany May–December 2017

7. Research Projects as Leading Investigator and Grants

SNF SPIRIT Grant “UnWeather Vizard: Uncertainty Visualization and Analysis of High-Resolution Numeric Weather Forecasts” (circa 600K CHF) 2023-2027.

Project Partner (Significantly contributed to the project proposal).

Funded project “ALVA: Automated Learning and Visualization of Autistic features”. (50K CHF) 2022, (50K CHF) 2023, funded by the Hasler Stiftung.

Lead computer scientist partner of the pilot project

Digital Society Initiative (DSI) Fellowship Project 2020–2022 (25K CHF)

“Visual Tools based on Citizen Data for Improving the Communication of Severe Weather Events”. Recipient: Alexandra Diehl. (25 K CHF) <https://www.dsi.uzh.ch/en/research/documents/fellowship.html>

Priority Programme “Volunteered Geographic Information: Interpretation, Visualisation and Social Computing“ (SPP 1894)

“Guiding the Crowds: Uncertainty and Trust-Aware Visual Analytics for Mobility based on Heterogeneous Volunteered Geographic Information.” (Execution).

8. Prizes, Fellowships and Memberships

Fellowship from the Digital Society Initiative (DSI) at University of Zurich,	2020–2022
Fellowship from the CONICET (National Research Council of Argentina),	2009–2010
Membership at the GI (Die Gesellschaft für Informatik e.V.)	2021–Ongoing

ACM-W Scholarship Award (<http://women.acm.org/scholarship>) for attendance to the SIGGRAPH 2014.

Honorable mention award: Alireza Amiraghdam, Alexandra Diehl, and Renato Pajarola. “LOCALIS: Locally-adaptive Line Simplification for GPU-based Geographic Vector Data Visualization”. *Computer Graphics Forum 2020*.

Best paper award: Bruno Schneider, Dominik Jäckle, Florian Stoffel, Alexandra Diehl, Johannes Fuchs, and Daniel Keim. “Visual Integration of Data and Model Space in Ensemble Learning”.

Symposium on Visualization in Data Science (VDS) at IEEE VIS 2017. arXiv:1710.07322 [cs.HC].

9. Invited Presentations and Talks

Invited talks:

• “Visual Tools for the Communication and Analysis of High-Impact Weather Events” at the Visualization Group of the TU Wien, Austria.	December 2022
• “Visual Analytics of Weather Forecasts” at the Visualization Group of the TU Wien, Austria.	November 2019
• Invited talk: “Applications of Geospatial Visual Analytics” at the Visualization Group of the University of Bergen, Norway.	August 2019
• Hands-on workshop: VGIScience, collaborative Research Week (CRW), University of Heidelberg, Germany.	May 2018
• Invited talk: “Geospatial Visualization”, University of Heidelberg, Germany.	February 2017
• Invited talk: “Deciphering Multiple Aspects of Uncertainty in the Visual Analysis of Social Media Data” at the Visualization Group of the TU Wien, Austria.	February 2018
• Invited talk: “Geospatial Visual Analytics Applications for Predictive Analysis” University of Heidelberg, GIS Science Group, Germany.	August 2018
• Invited talk: “Visual Analysis of Spatio-Temporal Data: Applications in Weather Forecasting” at the Visualization Group of the TU Wien, Austria.	July 2015
• Kickoff of the bilateral collaboration project: “Weather Forecast Visualization: Ongoing projects” at the Visualization Group of the TU Wien, Austria.	May 2015
• Invited talk: “Geovisualization” at the Friedrich-Schiller University of Jena, Germany.	July 2012

Kickoff presentation:

• Project “GPGPU Applications in Environmental Sciences” at the Latin-American Workshop, Microsoft Faculty Summit 2011, Redmond, WA, USA.	July 2011
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10. Conference Organization

Poster Co-chair: EuroVis 2024, Odense, Denmark.

Student Volunteer Co-organizer: EuroVis 2021, Zurich, Switzerland.

Co-organizer: IEEE VisGuides Workshop at IEEE VIS 2022, Oklahoma City, USA.

Co-organizer: IEEE VisGuides Workshop at IEEE VIS 2020, Salt Lake City, USA.

Co-organizer: IEEE VisGuides Workshop at IEEE VIS 2018, Berlin, Germany.

Co-organizer: Meetup at IEEEVIS 2019, Vancouver, Canada. "Viewpoints on Diversity through the VIS history".

Co-organizer: Meetup at IEEEVIS 2017, Phoenix, USA. "Career Plans for Women in Visualization".

Local organizer: BDVA 2018, International Symposium on Big Data Visual Analytics, Konstanz, Germany.

11. Outreach

NII Shonan Meeting "Augmented Software Visualization"

At Shonan Village Center, Japan, November 27 - 30, 2023.

Dagstuhl Seminar 22261

Participant of the "Visualization Empowerment: How to Teach and Learn Data Visualization" seminar. 2022-06-26 to 2022-07-01. <https://www.dagstuhl.de/2226a>

International Program Committee member

- EuroGraphics 2021–2022.
- EuroVis 2019–2023: STAR Reports and Short Papers track.
- ISVC (International Symposium on Visual Computing) 2017–2023.

Reviewer

IEEE TVCG, EuroVis, EuroGraphics, Information Visualization Journal, Pacific Graphics Notes, among others

VisGuides

www.visguides.org

Main responsible for VisGuides, an open, public, and democratic discussion forum that supports community-driven learning about visualization guidelines since 2017.

12. References

Prof. Dr. Min Chen

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Prof. Dr. M. Eduard Gröller

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Prof. Dr. M. Stefan Bruckner

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