Dipl.-Ing. Dr. Velitchko Filipov, BSc.

Academic Resumé

Position: Postdoctoral Researcher,
TU Wien, Faculty of Informatics

Fields: Computer Science, Human Computer Interaction, Visual Analytics, Network Analysis

Languages: English (C2), German (C1), Bulgarian (Native)

Contact: ✉ **velitchko.filipov@tuwien.ac.at**↗

Website: 🌐 **velitchko.github.io**↗

ORCID: ⓘ **0000-0001-9592-2179**↗

Scholar: **scholar.google.com/citations?user=2FYZ3QYAAAAJ**↗

LinkedIn: **in linkedin.com/in/velitchko-filipov**↗

1 Education

2024	**Ph.D. (Dr.-Techn.)**	📍 Vienna, Austria

Doctoral Degree
TU Wien
Faculty of Informatics, Institute of Visual Computing and Human-Centered Technology
Dissertation: "Networks in Time and Space: Visual Analytics of Dynamic Network Representations"

2018	**M.Sc. (Dipl.-Ing.)**	📍 Vienna, Austria

Master's Degree
TU Wien
Faculty of Informatics: Institute of Visual Computing and Human-Centered Technology
Thesis: "Visual Exploration and Comparison of Multiple Resumes: Focus on Time and Space"

2013	**B.Sc.**	📍 Vienna, Austria

Bachelor's Degree
TU Wien
Faculty of Informatics: Institute of Visual Computing and Human-Centered Technology
Thesis: "Social Interface and Interaction Design"

2 Employment and Further Training

2024–Present	**Postdoctoral Researcher** Vienna, Austria	📍 TU Wien
2017–2024	**PhD Student** Vienna, Austria	📍 TU Wien
2023–Present	**CTO** Remote	📍 iPal Network
2021–2023	**Developer** Remote	📍 Sentiment Trader
2015–2016	**Junior Web Developer** Vienna, Austria	📍 studioQ
2012–2014	**Junior Researcher** Remote	📍 Crocotta Research & Development Ltd
2009	**Junior Web Designer** Sofia, Bulgaria	📍 Bianor
2008	**Junior Web Designer** Sofia, Bulgaria	📍 Nextborn

3 Prizes, Awards, and Honors

Honorable Mention IEEE VIS 2025: Award↗
"Layers of Doubt: Typology of Temporal Uncertainty in Dynamic Diffusion Networks "
Awarded at IEEE VIS Uncertainty Visualization Workshop, 2nd of November 2025

Best Full Paper EuroVis 2025: Award↗
"NODKANT: Exploring Constructive Network Physicalization"
Awarded at EuroVis, 3rd of June 2025

Top Cited Article 2025: Award↗
"Are We There Yet? A Roadmap of Network Visualization from Surveys to Task Taxonomies"
Wiley & Sons, 19th of March 2025

Best Dissertation Nominee 2024: Entry↗
Dissteration: "Networks In Time and Space: Visual Analytics of Dynamic Network Representations"
TU Wien Informatics Awards, 2nd of December 2024

Best Paper VIS4DH 2019: Award↗
"Bridging the Gap between Visual Analytics and Digital Humanities: Beyond the Data-Users-Tasks Design Triangle"
Awarded at IEEE VIS 2019, Vancouver, Canada

Graph Drawing Contest 2019: Award↗
"The Fabric of Heroes"
Awarded at the 27th International Symposium on Graph Drawing and Network Visualization

Graph Drawing Contest 2018: Award↗
"The Circle of Thrones"
Awarded at the 26th International Symposium on Graph Drawing and Network Visualization

EPILOG - Best Master Thesis Nominee 2018: Entry↗
Thesis: "Visual Exploration and Comparison of Multiple Resumes: Focus on Time and Space"
Presented at TU Wien, 18th of January 2018

4 Invited Talks

- **IEEE VIS TVCG Invited Paper:** "TimeLighting" [Fil+24]
  IEEE VIS, Vienna, Austria, 2025

- **BioMedVis:** "Networks in Motion" [Fil25]
  Ludwig Boltzmann Institute, Vienna, Austria, 2025

- **IEEE VIS TVCG Invited Paper:** "A Space and Time Odyssey" [Fil+23b]
  IEEE VIS, Florida, US, 2024

- **WinterGraph:** "Research Unit Introduction" [Fil24b]
  (internal workshop), Kaprun, Austria 2024

- **Shonan:** "Dynamic Perspectives" [Fil24a]
  Material Sciences, Shonan, Japan, 2024

- **EuroVis CGF Invited Paper:** "Are We There Yet?" [FAM23]
  EuroVis, Leipzig, Germany, 2023

- **AustroVIS:** "Chronicals of Artist Networks" [Fil+23a]
  (internal workshop), AustroVIS, 2023

- **Vienna Perspectives:** "Interactive Music Mapping Vienna" [Fil22]
  Groove The City, Vienna, Austria, 2022

5 Academic Cooperation

SANE (FWF WEAVE)   2024 – ongoing
Role: (co-PI) Post-Doc. Senior Researcher, Visual Analytics
Principle Investigator: Asst.Prof. Alessio Arleo
Supervisors: Prof. Silvia Miksch
Funding: FWF 10.55776/I6635 (425,282 €)
Focus: Network Visualization, Spatio-temporal Data Visualization, Information Diffusion, Uncertainty Visualization, Visual Analytics,

ArtVis (FWF)   2022 – ongoing
Role: (co-PI) Post-Doc. Senior Researcher, Visual Analytics
Principle Investigator: Prof. Silvia Miksch
Supervisors: Prof. Silvia Miksch
Funding: FWF 10.55776/P35767 (410,779 €)
Focus: Network Visualization, Spatio-temporal Data Visualization, Visual Analytics, Digital Art History

Knowledge Assisted Visual Analytics (FWF)   2020 – 2022
Role: Pre-Doc. Junior Researcher, Visual Analytics

Principle Investigator: Prof. Silvia Miksch
Supervisors: Prof. Silvia Miksch
Funding: FWF 10.55776/P31419 (407,008 €)
Focus: Dynamic Network Visualization, Visual Analytics, Health Care, Knowledge Modelling

Interactive Music Mapping Vienna (FWF)   2017 – 2020
Role: Pre-Doc. Junior Researcher, Visual Analytics
Principle Investigator: Prof. Susana Zapke
Supervisors: Prof. Silvia Miksch
Funding: FWF 10.55776/AR384 (415,338 €)
Focus: Dynamic Network Visualization, Event-based Network Visualization, Visual Analytics, Digital Humanities

PolyCube (FWF)   2017 – 2019
Role: Pre-Doc. Junior Researcher, Visual Analytics
Principle Investigator: Dr. Eva Mayr
Supervisors: Prof. Silvia Miksch
Funding: FWF 10.55776/P28363 (342,895 €)
Focus: Network Visualization, Set-typed Data and Spatio-temporal Data Visualization, Visual Analytics

6   Service to Academic Community

I actively contribute to the academic community through reviewing, organizing, and committee work:

Journal Reviewing

- Computer Graphics Forum (Wiley & Sons)

- Transactions on Visualization and Computer Graphics (IEEE)

- Computers & Graphics (Elsevier)

Conference Program Committees

- IEEE VIS (Full and Short Paper Tracks) – 2024, 2025

- IEEE PacificVis (Conference and Journal Paper Tracks) – 2024, 2025, 2026

- Pacific Graphics (Full Paper Track) – 2025, 2026

- EuroVis (Full, Short, Education Paper Tracks) – 2024, 2025

- Graph Drawing & Network Visualization (Full Paper Track) – 2024, 2025

- Program Committee, Short Papers @ IEEE VIS – 2025

- Program Committee, EduVis Workshop @ IEEE VIS – 2025

- Program Committee, VIPRA Workshop @ EuroVis – 2024, BPM – 2025

- Program Committee @ Visual Analytics in Healthcare Workshop @ IEEE VIS – 2021, 2023, 2025

Workshop Organization and Chairing

- Visual Analytics in Healthcare Full-day Workshop Paper & Session Chair @ IEEE VIS – 2025

- VisGames Half-day Workshop Co-Organizer @ EuroVis – 2025

- VisGames Full-day Workshop (Second Edition) Organizer & Co-Chair @ EuroVis – 2026

Local Organization

- Local Organizer for **EuroVis**↗ – 2026
- Organizer for **AustroVis Workshop**↗ – 2025

7   Teaching Activity

I support junior researchers and supervise students. I teach (Bachelor & Master) courses on information visualization and design.

Teaching (Bachelor and Master courses):

- (VO) Information Visualization
- (VO) Information Design and Visualization
- (UE) Information Design and Visualization
- (SE) Seminar on Human-Centered Computing, Information Visualization, Visual Analytics, Medical Informatics
- (PR) Projects in Media and Human-Centered Computing, Medical Informatics,
- (PR) Projects: Visual Computing 1 & 2
- (PR) Bachelor & Master Theses

Bachelor Theses:

- (2026) "MetroMap Diffusion". Benedikt Gschmieder.
- (2026) "Diffusion?". Michael Matte
- (2025) "Fuzzy Dynamic Networks". Oliver Kastner
- (2025) "AdMaTilE: Visualizing Dynamic Adjacency Matrices in a Multiple-Coordinated-View System"
- (2024) "Temporal Motif Detection in Dynamic Networks"
- (2021) "PromNetworkVis: Dynamic Network Visualization to Patient-Reported Outcome Measures"
- (2019) "Visualization of Time-oriented Multivariate Survey Data"
- (2019) "EventQuery: Visual Querying & Pattern Matching in Time-Oriented Geospatial Data"
- (2018) "An Interactive Dashboard Approach for the Visual Analysis of Rocket Flight Data"

Master Theses:

- (2024) "Dynamic Network Analysis with Centrality Measures"
- (2023) "Utilizing Visual Analytics for Network Exploration in the Domain of Art History Research"

> **Building Collaborations**
>
> I actively establish interdisciplinary collaborations, with a particular focus on art history and the humanities.
> My approach centers on:
>
> - **Interactive, hands-on, and co-design methods** to engage stakeholders, elicit requirements, and communicate complex concepts
>
> - **Onboarding** and **community-driven knowledge graphs** in decentralized research settings to foster effective knowledge exchange and management
>
> I am a strong advocate for open science, transparency, and reproducibility. I actively:
>
> - support recognition from the **Graphics Replicability Stamp Initiative**↗
>
> - encourage people to be transparent about **pre-registration** of their study designs and analysis plans (e.g., via OSF.io)
>
> - promote open-access and open-source **code, methods, and supplementary materials** to support replicability and knowledge dissemination
>
> My collaborative efforts have resulted in:
>
> - **Diverse range** of joint publications
>
> - **Successful project proposals**
>
> - **Ongoing interdisciplinary research**
>
> Further details are available in my publications list and on my **website**↗.

8   Research Statement

My research focuses on the intersection of human-centered computing, information visualization, and visual analytics. I aim to develop innovative visualization techniques and tools that empower users to explore and understand complex data, particularly in the context of medical informatics and art history. I employ a user-centered design approach, involving stakeholders throughout the research process to ensure that the resulting solutions are relevant and effective. My work often involves the use of interactive visualizations, machine learning, and data mining techniques to uncover insights from large and dynamic datasets.

I am particularly interested in the following research areas:

- **Dynamic Network Visualization:** Developing methods for visualizing and analyzing dynamic networks, with applications in healthcare and social media.

- **Visual Analytics for Art History:** Exploring how visual analytics can support art historians in their research, including the analysis of large image datasets and the exploration of artistic styles and trends.

- **Human-Computer Interaction:** Investigating how users interact with visualizations and developing design guidelines to improve usability and accessibility.

9   Teaching Statement

I am a postdoctoral researcher at the Institute of Visual Computing & Human-Centered Technology at TU Wien. My teaching philosophy is about getting our hands dirty together. I find that knowledge is constructed, questioned, and worked with rather than passively absorbed. My approach is grounded in active learning and constructivist pedagogy: students learn by doing, by failing, by making decisions under uncertainty, and by engaging directly with problems that are not always easy to answer.

I teach information visualization and design at both bachelor and master levels, and across these contexts I try to move beyond presenting encoding principles or interaction techniques. I encourage students to build visualizations, critique them, break them intentionally, and defend their choices. I've supervised 10 completed theses (8 bachelor, 2 master) and currently guide 2 more bachelor students and am supporting 4 junior PhD researchers. What connects these experiences is an approach built around questions rather than answers. I provide structure and scaffolding but leave space for students to construct their own research and understanding.

Constructivist learning theory tells us that knowledge isn't transferred. It's built through scaffolded engagement with authentic problems. When I teach visualization courses, I do not just present the "rules" and "guidelines". We explore datasets together, try different encodings, observe what fails, and reason about why. One of my favorite moments in class comes when we wrap up the topic of design guidelines by intentionally breaking every one of them. Students see for themselves how choices shape results, which helps them build a deep understanding of why some approaches succeed and others do not. They understand why some things work, because they've seen the alternatives we made. Their feedback about this is also quite positive.

Teaching requires flexibility and attentiveness. I teach classes of varying sizes, and I'm aware that a 100+ student lecture demands different strategies compared to a smaller group of 10 students. But I believe it is important to create opportunities for students to actively engage with the material, whether through in-class problem-solving, peer discussion, hands-on prototyping, or reflective exercises. Given the opportunity of shaping courses and curricula, I want to open with informal sessions where students articulate what they want to learn. At the end, we revisit those goals and reflect on what was achieved. I want to actively involve and co-create the learning environment with the students, make a space for diverse voices and goals.

There are three things I try to help students develop, and I think they matter beyond any specific course or project.

- First, critical reflection. Question everything: your visualizations, your assumptions, the "best practices" you read in papers, and my feedback too. To me questioning, is the foundation of research and science and I reflect this in my teaching. The most interesting work emerges when we challenge what's taken for granted, when we ask whether a design actually answers the question it claims to answer, or whether a technique is appropriate for the context at hand. I try to encourage students to push back, to interrogate claims, and to develop their own critical lens.
- Second, decisiveness. Make a decision. Commit to a direction and iterate. Students, especially early-career researchers, often paralyze themselves with choice: which framework, which dataset, which venue, which design. I try to teach them that standing still is worse than moving in an imperfect direction. If the choice is wrong, we adjust. If it's right, we build on it. But indecision is stagnation.
- Third, movement. Prototype early. Fail fast. Don't sit on an idea too long. Progress requires motion, not just in projects, but in thinking, in research trajectories, in career development. The lack of movement is death. I encourage students to get their hands dirty quickly, to build something tangible, to test ideas rather than over-theorize them. This is how we discover what we don't know, and how we keep momentum even when the path forward is unclear.

I think about these things in my own research too, and students see me question my own designs, pivot when something isn't working, and keep projects moving even when progress feels slow. My approach to

supervision is more about mentoring than managing. My thesis supervisions span topics from dynamic network analysis to geospatial event querying to medical data visualization, reflecting the breadth of students' interests and the flexibility I try to afford them. I prefer to sit down together, plan, then schedule regularly check-ins to adapt and adjust if necessary. I am aware that some students need more structure whereas others thrive with autonomy, some are confident and direct, whereas others need encouragement and support. I try to meet them where they are. This extends to my work with junior researchers as well, I collaborate closely with four PhD students. We tackle problems together, challenge each other's assumptions, and iterate rapidly. Some of the best things have come from these sessions because we asked the right (and wrong) questions.

In teaching, failure is usually the thing students fear most. To me failure is normal, necessary, and generative. I'm transparent about my own failures: rejected papers, visualizations that didn't work, projects that stalled. In class, I want students to see that setbacks are part of the process. So we deliberately test ideas that may fail, analyze why they do not work, and discuss the lessons these experiences reveal. This hands-on approach helps students internalize learning in a tangible way. I find this to be incredibly important for students who are already marginalized or lack confidence. I'm aware that students come from different backgrounds, cultures, genders, ages, and levels of experience. As someone who has spent most of my life abroad, I know what it feels like to be on the outside. I try to create inclusive spaces where diverse perspectives are not just tolerated but valued. I make all materials transparent and accessible and I encourage students to ask questions immediately, rather than waiting for email or office hours. I believe this is how we can build trust and create environments where people feel heard and included.

Computer science is rapidly developing and paradigm shifts happen all the time. Students today are navigating technological changes, complex ethical questions, and interdisciplinary research contexts that didn't exist a decade ago. We need to adapt our teaching methods to match the complexity and pace of the field, to equip students not just with knowledge but with the capacity to question, decide, and move. I see teaching as research in its own right: an iterative process of hypothesis, experimentation, and refinement. Every semester, I incorporate student feedback and adjust content, structure, and methods. I pay attention to what works and what doesn't.

Ultimately, I believe the most impactful thing I can do as an educator is to help students become independent, critical, and confident thinkers who can navigate uncertainty and complexity. I want them to leave my courses not just with technical skills, but with the capacity to ask hard questions, know how to approach problems, make bold decisions, and keep moving even when the path isn't clear.

Open Science: All of my publications are openly accessible (**Google Scholar**↗; **Web of Science**↗). I received the IEEE Graphics Replicability Stamp Initiative award (**details**↗). Implementations of my approaches as well as results and analysis are open-sourced (**GitHub**↗). I actively promote reproducibility, replicability, and transparency in academic research, providing all materials linked to my publications.

Publications

[Ehl+24]   H. Ehlers et al. "Me! Me! Me! Me! A Study And Comparison Of Ego Network Representations". In: COMPUTERS & GRAPHICS-UK 125 (2024), pp. 1–15. ISSN: 0097-8493. DOI: `10.1016/j.cag.2024.104123`. URL: `https://www.sciencedirect.com/science/article/pii/S0097849324002589`.

[Ehl+25a]   H. Ehlers et al. "BattleGraphs: Forge, Fortify, And Fight In The Network Arena". In: ed. by C. Stoiber et al. The Eurographics Association, 2025. DOI: `10.2312/visgames.20251161`.

[Ehl+25b]   H. Ehlers et al. "Wiggle! Wiggle! Wiggle! Visualizing Uncertainty In Node Attributes In Straight-Line Node-Link Diagrams Using Animated Wiggliness". In: COMPUTERS & GRAPHICS-UK 131 (2025). ISSN: 0097-8493. DOI: `10.1016/j.cag.2025.104290`.

[FAM21]   V. Filipov, A. Arleo, and S. Miksch. "Exploratory User Study On Graph Temporal Encodings". In: 2021 IEEE 14th Pacific Visualization Symposium (PacificVis). Tianjin, China: IEEE 14th Pacific Visualization Symposium (PacificVis), 2021. DOI: `10.1109/pacificvis52677.2021.00025`.

[FAM23]   V. Filipov, A. Arleo, and S. Miksch. "Are We There Yet? A Roadmap Of Network Visualization From Surveys To Task Taxonomies". In: Computer Graphics Forum (2023). ISSN: 0167-7055. DOI: `10.1111/cgf.14794`.

[FFM18]   V. Filipov, P. Federico, and S. Miksch. "CV3: Visual Exploration, Assessment, And Comparison Of CVs". In: EuroVis 2018 - Posters. Ed. by A. Puig and R. Raidou. The Eurographics Association, 2018. ISBN: 978-3-03868-065-9. DOI: `10.2312/eurp.20181115`.

[Fil+18]   V. Filipov et al. "The Circle Of Thrones: Conveying The Story Of Game Of Thrones Using Radial Infographics". In: International Symposium on Graph Drawing and Network Visualization (GD 2018) - Creative Contest. 2018. URL: `https://www.cvast.tuwien.ac.at/bibcite/reference/477`.

[Fil+19a]   V. Filipov et al. "CV3: Visual Exploration, Assessment, And Comparison Of CVs". In: Computer Graphics Forum 38 (3 2019). Ed. by M. Gleicher, H. Leitte, and I. Viola, pp. 107–118. DOI: `10.1111/cgf.13675`.

[Fil+19b]   V. Filipov et al. "Exiled But Not Forgotten: Investigating Commemoration Of Musicians In Vienna After 1945 Through Visual Analytics". In: Proceedings of the Third Conference on Biographical Data in a Digital World 2019. Proceedings of the Third Conference on Biographical Data in a Digital World 2019, 2019. URL: `https://ceur-ws.org/Vol-3152/BD2019_paper_8.pdf`.

[Fil+19c]   V. Filipov et al. "The Fabric Of Heroes: An Infographic About Marvel Cinematic Universe". In: International Symposium on Graph Drawing and Network Visualization (GD 2018) - Creative Contest. 2019. URL: `https://www.cvast.tuwien.ac.at/publications/fabricofheroes`.

[Fil+21]   V. Filipov et al. "Gone Full Circle: A Radial Approach To Visualize Event-Based Networks In Digital Humanities". In: Visual Informatics 5 (1 2021), pp. 45–60. ISSN: 2543-2656. DOI: `10.1016/j.visinf.2021.01.001`.

[Fil+23a]   V. Filipov et al. Back To The Graphs: A Collection Of Datasets And Quality Criteria For Temporal Networks Layout And Visualization. 2023. DOI: `10.34726/5451`.

[Fil+23b]   V. Filipov et al. Chronicles Of Artist Exhibitions: Exploring Temporal Patterns In Artists' Co-Exhibition Activity Using Visual Analytics. 2023. URL: `https://repositum.tuwien.at/handle/20.500.12708/190421`.

[Fil+23c]   V. Filipov et al. "On Network Structural And Temporal Encodings: A Space And Time Odyssey". In: IEEE Transactions on Visualization and Computer Graphics 14 (8 2023). ISSN: 1077-2626. DOI: `10.1109/TVCG.2023.3310019`.

[Fil+23d]   V. Filipov et al. "On Time And Space: An Experimental Study On Graph Structural And Tempo-ral Encodings". In: ed. by P. Angelini and R. von Hanxleden. Vol. 13764. Springer Cham, 2023, pp. 271–288. DOI: `10.1007/978-3-031-22203-0_20`.

[Fil+24a]   V. Filipov et al. "TimeLighting: Guidance-Enhanced Exploration Of 2D Projections Of Temporal Graphs". In: ed. by M. A. Bekos and M. Chimani. Vol. 14465. Lecture Notes in Computer Science. Cham: Springer, 2024, pp. 231–245. DOI: `10.1007/978-3-031-49272-3_16`.

[Fil+24b]   V. Filipov et al. "TimeLighting: Guided Exploration Of 2D Temporal Network Projections". In: IEEE Transactions on Visualization and Computer Graphics (2024). ISSN: 1077-2626. DOI: `10.1109/TVCG.2024.3514858`.

[Fil17]   V. Filipov. "Visual Exploration And Comparison Of Multiple Resume: Focus On Time And Space". MA thesis. Wien: Technische Universität Wien, 2017. DOI: `10.34726/hss.2017.43587`.

[Fil22]   V. Filipov. Interactive Music Mapping Vienna: Networks In Time And Space. 2022. URL: `https://repositum.tuwien.at/handle/20.500.12708/152680`.

[Fil24a]   V. Filipov. Dynamic Perspectives: Visualizing Time And Networks For Analytical Insights. 2024. DOI: `10.34726/6362`.

[Fil24b]   V. Filipov. "Networks In Time And Space: Visual Analytics Of Dynamic Network Representa-tions". PhD thesis. Wien: Technische Universität Wien, 2024. DOI: `10.34726/hss.2024.123022`.

[Fil24c]   V. Filipov. Presenting CVAST Research Group. 2024. URL: `https://repositum.tuwien.at/handle/20.500.12708/193508`.

[Fil25]   V. Filipov. Networks In Motion. 2025. DOI: `10.34726/10139`.

[HF24]   N.-M. Herl and V. Filipov. "AdMaTilE: Visualizing Event-Based Adjacency Matrices In A Multiple-Coordinated-Views System". In: International Symposium on Graph Drawing and Network Visualization (GD 2024) - Posters. Ed. by S. Felsner and K. Klein. Vol. 320. 2024, 46:1–46:3. DOI: `10.4230/LIPIcs.GD.2024.46`.

[Kam+23]   T. Kamencek et al. TimeScapes: Towards A Visual Characterization Of Modern Artist' Exhibition Activity. 2023. URL: `https://repositum.tuwien.at/handle/20.500.12708/193549`.

[Lin+25]   S. van der Linden et al. "Towards Integrating Visual Analytics In Multi-Perspective Confor-mance Checking: A Call To Action". In: ed. by H.-J. Schulz and A. Vilanova. The Eurographics Association, 2025. DOI: `10.2312/eurova.20251100`.

[May+19]   E. Mayr et al. "Visualizing Biographical Trajectories By Historical Artifacts: A Case Study Based On The Photography Collection Of Charles W. Cushman". In: Proceedings of the Third Confer-ence on Biographical Data in a Digital World 2019. Proceedings of the Third Conference on Biographical Data in a Digital World 2019, 2019. URL: `https://ceur-ws.org/Vol-3152/BD2019_paper_7.pdf`.

[Pah+25]   D. Pahr et al. "NODKANT: Exploring Constructive Network Physicalization". In: Computer Graph-ics Forum (2025). ISSN: 0167-7055. DOI: `10.1111/cgf.70140`. URL: `https://onlinelibrary.wiley.com/doi/10.1111/cgf.70140`.

[PEF25]   D. Pahr, H. Ehlers, and V. Filipov. "HoloGraphs: An Interactive Physicalization For Dynamic Graphs". In: Proceedings of the 20th International Joint Conference on Computer Vision, Imag-ing and Computer Graphics Theory and Applications - Volume 1: IVAPP. INSTICC. SciTePress, 2025, pp. 859–866. ISBN: 978-989-758-728-3. DOI: `10.5220/0013116000003912`.

[Sal+19a]   S. Salisu et al. "Shapes Of Time: Visualizing Set Changes Over Time". In: Workshop on Set Visualization (SetVis) at IEEE VIS 2019. 2019. URL: `https://repositum.tuwien.at/handle/20.500.12708/86982`.

[Sal+19b]   S. Salisu et al. "Shapes Of Time: Visualizing Set Changes Over Time In Cultural Heritage Col-lections". In: 21st EG/VGTC Conference on Visualization (EuroVis 2019). Ed. by J. M. Pereira and R. Raidou. Computer Graphics Forum. 38-3: The Eurographics Association, 2019, pp. 45–47. DOI: `10.2312/eurp.20191142`.

[Sch+19] V. Schetinger et al. "Bridging The Gap Between Visual Analytics And Digital Humanities: Beyond The Data-Users-Tasks Design Triangle". In: Workshop on Visualization for Digital Humanities (VIS4DH) at IEEE VIS 2019. 2019. URL: `https://vis4dh.dbvis.de/2019/papers/2019/VIS4DH2019_paper_13.pdf`.

[Sch+21] V. Schetinger et al. "Xenakis: Experimenting With Data, Cities, and Sounds". In: alt.VIS Workshop at IEEE VIS 2021. 2021. DOI: `10.48550/ARXIV.2109.14992`. arXiv: `2109.14992`. URL: `https://arxiv.org/abs/2109.14992`.

[Sch+22] V. Schetinger et al. "I Learn To Diffuse, Or Data Alchemy 101: A Mnemonic Manifesto". In: alt.VIS Workshop at IEEE VIS 2021. 2022. DOI: `10.48550/ARXIV.2208.03998`.

[SF23] S. Salisu and V. Filipov. "Blockchain Forensics: A Modern Approach To Investigating Cybercrime In The Age Of Decentralisation". In: vol. 18. The proceedings of the … international conference on information warfare and security. Reading, UK: Academic Conferences International Limited, 2023, pp. 338–347. DOI: `10.34190/iccws.18.1.947`.

[Tus+24] M. Tuscher et al. "Mapping The Avantgarde: Visualizing Modern Artists' Exhibition Activity". In: EuroVis 2024 - Short Papers. The Eurographics Association, 2024. DOI: `10.2312/evs.20241063`.

[Tus+25] M. Tuscher et al. "Nodes, Edges, And Artistic Wedges: A Survey On Network Visualization In Art History". In: Computer Graphics Forum 44 (3 2025). ISSN: 0167-7055. DOI: `10.1111/cgf.70154`. URL: `https://onlinelibrary.wiley.com/doi/10.1111/cgf.70154`.

[Win+18] F. Windhager et al. "Visualizing Uncertainty In Cultural Heritage Collection". In: EuroVis Workshop on Reproducibility, Verification, and Validation in Visualization (EuroRV3). Ed. by K. Lawonn et al. The Eurographics Association, 2018. ISBN: 978-3-03868-066-6. DOI: `10.2312/eurorv3.20181142`.

[Win+20] F. Windhager et al. "Many Views Are Not Enough: Designing For Synoptic Insights In Cultural Collections". In: IEEE Computer Graphics and Applications 40 (3 2020), pp. 58–71. ISSN: 0272-1716. DOI: `10.1109/mcg.2020.2985368`.