ACADEMIC CURRICULUM VITAE (June, 2021)

CONTACT INFORMATION:

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ABOUT ME:

I am an enthusiastic researcher working on untangling and analyzing large and complex relationships and assist users (e.g., scientists, students, and the public) using responsive visual forms. My primary research interests are visualization and visual analytics, mainly focusing on introducing computational optimization components in improving human perception. My enthusiasm also comes from my love of visual design and new technology, as well as helping people gain new knowledge. Since I am convinced that visualization is the most effective way for users to communicate with machines, various immersive methods to engage users with data, knowledge, and systems are essential for this purpose. My vision in visualization research is to maximally support human perception through an effective visual translation scheme to align users' mental models with dynamic information in order to achieve effective data analytics. I explore not only classical approaches but also creative solutions.

RESEARCH INTERESTS:

- Visualization, Information Visualization and Network Visualization
- Relationship Data Analytics
- Multivariate Data Visualization and Visual Analytics
- Applied Data (e.g., Geo-spatial Data and Biological Data) Visualization
- Computer Graphics and Multimedia
- Human Computer Interaction and Data Physicalization,
- Communication and Education

EDUCATIONAL BACKGROUND:

Apr. 2010 – Mar. 2013   Ph.D. in Visualization:
Takahashi Research Group (Visualization Laboratory),
Department of Complexity Science and Engineering,
Graduate School of Frontier Sciences,
The University of Tokyo, Japan

Sept. 2006 – Jul. 2008   M.Sc. in Electrical Engineering:
Computational Theory Laboratory,
Department of Electrical Engineering,
Graduate Institute of Electrical Engineering,
National Taiwan University, Taiwan

Sept. 2001 – Jan. 2006   B.Sc. in Atmospheric Science:
  Department of Atmospheric Science,
  National Taiwan University, Taiwan

PROFESSIONAL PROFILE:

Jun. 2019 – Present   University Assistant:
  Research Unit Computer Graphics,
  Institute of Visual Computing & Human-Centered Technology,
  TU Wien, Austria

Apr. 2015 – Present   Visiting Researcher:
  Center for Spatial Information Science,
  University of Tokyo, Japan

Jun. 2017 – Jun. 2019   Marie Curie Research Fellowship:
  Research Unit Computer Graphics,
  Institute of Visual Computing & Human-Centered Technology,
  TU Wien, Austria

Oct. 2016   Visiting Professor:
  National Engineering Laboratory of Big Data Analysis and Application,
  School of Electronics Engineering and Computer Science,
  Peking University, China

Apr. 2015 – May. 2017   Project Assistant Professor:
  Fujishiro Research Group (Computer Graphics and Visualization Laboratory),
  Department of Information and Computer Science, Graduate School of Science and Technology,
  Keio University, Japan

Apr. 2014 – Mar. 2015   Project Assistant Professor:
  Takahashi Research Group (Visualization Laboratory),
  Department of Computer Science, Graduate School of Information Science and Technology,
  The University of Tokyo, Japan

Oct. 2013 – Apr. 2014   Project Assistant Professor:
  Takahashi Research Group (Visualization Laboratory),
  Department of Complexity Science and Engineering, Graduate School of Frontier Sciences,
  The University of Tokyo, Japan

Apr. 2013 – Oct. 2013   Postdoctoral Researcher:
  Takahashi Research Group (Visualization Laboratory),
  Department of Complexity Science and Engineering, Graduate School of Frontier Sciences,
  University of Tokyo, Japan

Nov. 2008 – Mar. 2010   Software Engineer
  Quanta Computer Inc, Taiwan.

AWARDS:

- Best Short Paper Award, IEEE Vis 2020
- 3rd Place Award in Graph Drawing Contest, GD 2020

- Best Paper Award, CESCG 2020
- 1st Place Award in Graph Drawing Contest, GD 2019
- Best Paper Honorable Mention, EuroVis 2019
- Best Poster Award, SchematicMapping 2019
- SciVis Best Paper Honorable Mention, IEEE Vis 2018
- Best Paper Award, 2nd Best Paper Presentation Award, SCCG 2016
- Best Short Paper Award, SmartGraphics 2015

CONFERENCE/SEMINAR ORGANIZATION:

- Dagstuhl Seminar Organizer: Bringing Graph Databases and Network Visualization Together (January, 2022)
- Core Organization Member: International Symposium on Graph Drawing and Network Visualization (GD 2022)
- Community Co-Chair: IEEE Visualization (IEEE VIS 2020-2021)
- Doctoral Consortium Co-Chair: Annual Conference of the European Association for Computer Graphics (Eurographics 2021)
- Shonan Meeting Organizer: Understanding the "Why" of Data and Knowledge Models (Shonan 183, 2021)
- Paper Co-Chair: 19th International Workshop on Data Mining in Bioinformatics (BIOKDD 2020)
- Shonan Meeting Organizer: Toughening the Foundation of Abstraction in Visualization Techniques (Shonan 173, 2020) [Postponed due to the COVID-19 pandemic]
- Short Paper Co-Chair: IEEE Pacific Visualization Symposium (PacificVis 2019)
- International Forum Co-Chair: China Visualization and Visual Analytics Conference (ChinaVis 2019-2021)
- Webmaster & Design Chair: IEEE Pacific Visualization Symposium (PacificVis 2018)
- Poster Co-Chair: IEEE Pacific Visualization Symposium (PacificVis 2017)
- Publicity Chair of the Annual International Conference NICOGRAPH (NICOGRAPH 2017)
- Local Organizing Committee of Topology-Based Methods in Visualization (TopoInVis 2017)
- Treasurer: ACM SIGGRAPH International Conference on Virtual Reality Continuum and Its Applications in Industry (VRCAI 2015)
- Publicity Co-Chair: International Symposium on Big Data Visual Analytics (BDVA 2015)
- Publicity Chair: IEEE Pacific Visualization Symposium (PacificVis 2014, 2020, 2021, 2022)

EDITORS:

- Guest Associate Editor, IEEE/ACM Transactions on Computational Biology and Bioinformatics (BIOKDD2020 Special Issue) `https://mc.manuscriptcentral.com/tcbb-cs`, 2021.
- Guest Associate Editor, AI-enabled Data Science for COVID-19, Medicine and Public Health `https://www.frontiersin.org/research-topics/16237/ai-enabled-data-science-for-covid-19`, 2021.
- Review Editor, Data Visualization, Frontiers in Bioinformatics `https://www.frontiersin.org/journals/bioinformatics/sections/data-visualization`, 2021.

INTERNATIONAL PROGRAM COMMITTEE MEMBER:

- Full Paper

  IEEE Visualization (IEEE Vis) (2020-2021)
  EG/VGTC Conference on Visualization (EuroVis) (2019-2021)
  IEEE Pacific Visualization Symposium (PacificVis) (2016-2021)

International Conference on Information Visualization Theory and Application (IVAPP) (2021)
International Symposium on Graph Drawing and Network Visualization (GD) (2019, 2021)
NICOGRAPH International (NICOGRAPH) (2018)
China Visualization and Visual Analytics Conference (ChinaVis) (2017-2021)
International Symposium on Visual Information Communication and Interaction (VINCI) (2015-2017)
International Symposium on Big Data and Data Analytics in Collaboration (BDDAC) (2015-2016)

- Short Paper

  IEEE Visualization Short Paper Program (IEEE Vis Short) (2020)
  EG/VGTC Conference on Visualization Short Paper Program (EuroVis Short) (2020)
  IEEE Pacific Visualization Symposium Notes Program (PacificVis Notes) (2016-2018)

- Poster

  EG/VGTC Conference on Visualization (EuroVis Poster) (2018-2019)

REVIEWING:

- International (Excluding review records as IPC members)

  Computer Graphics Forum (CGF) (2021)
  ACM CHI Conference on Human Factors in Computing Systems (CHI) (2021)
  IEEE Conference on Virtual Reality and 3D User Interfaces (IEEEVR) (2021)
  Data visualization, Frontiers in Bioinformatics (2020)
  IEEE Visualization (2014-2015, 2017-2019)
  IEEE Transactions on Visualization and Computer Graphics (TVCG) (2014, 2016, 2020-2021)
  IEEE Access (2020)
  Elsevier journals on Big Data Research (2021)
  IEEE Transactions on Big Data (TBD) (2018)
  Eurographics/IEEE Conference on Visualization(EuroVis) (2016-2018)
  Pacific Conference on Computer Graphics and Applications (Pacific Graphics) (2015, 2017)
  ACM Transactions on Interactive Intelligent Systems (TiiS 2019)
  Computers & Graphics (Elsevier) (2013, 2015, 2017, 2020)
  Elsevier Computer Networks (2017)
  Journal of Graph Algorithms and Applications (JGAA) (2019-2020)
  Journal of Visualization (2016-2020)
  Journal of Visual Languages and Computing (JLVC) (2016)
  ACM Symposium on User Interface Software and Technology (UIST) (2017)
  ISPRS International Journal of Geo-Information (2017)
  Geo-spatial Information Science (2018)
  International Journal of Geographical Information Science (IJGIS) (2013)
  ISPRS International Journal of Geo-Information (2017-2018)
  IEEE Pacific Visualization Symposium (PacificVis) (2014-2019)
  Conference on Combinatorial Optimization and Applications (COCOA) (2016)
  IIEEJ International Workshop on Image Electronics and Visual Computing (IEVC) (2014, 2016)

- Domestic (Excluding review records as IPC members)

  The Journal of the Institute of Image Electronics Engineers of Japan (IIEEJ) (2015)
  Transactions of the Visualization Society of Japan (2012)

CONFERENCE WEBSITE MAINTENANCE:

- PacificVis 2018: http://itolab.is.ocha.ac.jp/pvis2018/
- NICOGRAPH International 2017: http://art-science.org/nicograph/nicoint2017/
- TopoInVis 2017: http://fj.ics.keio.ac.jp/topoinvis/
- PacificVis 2014: http://fj.ics.keio.ac.jp/pvis2014/

MEMBERSHIP:

- May, 2015 – Present: ACM (Association for Computing Machinery)
- February, 2011 – Present: IEEE Computer Society
- May, 2014 – Present: Japan Cartographers Association