Jia-Kai Снои, Ph.D.

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EMPLOYMENT & EXPERIENCE

Jan. 2015 - Present	Post-Doctoral Researcher at UNIVERSITY OF CALIFORNIA, DAVIS Supervised more than 10 student researchers, including 5 Ph.D. students and 4 Master's students, in various research projects. Conduct research in designing and developing visual approaches and systems for supporting effective data analysis. Primary topics include: • Privacy aware visualization design. • Explanatory visualization & visualization for storytelling. • Visual analytics system and interface design.
Ост. 2013 - Nov. 2014	Assistant IT Coordinator (Alternative Military Service) at DEPARTMENT OF INFORMATION TECHNOLOGY, Taipei City Government Coordinated with FISU's IT&C consultant for planning a \$1-billion NTD budget on IT&C equipment and software systems for 2017 Taipei Universiade.
FEB. 2012 - OCT. 2012	Visiting Student at UNIVERSITY OF CALIFORNIA, DAVIS Studied the performance of audio-augmented visualization.
SUMMER 2010	Summer Intern at TREND MICRO, INC. Integrated multiple visualization toolkits for network user behavior analysis.
SEP. 2007 - JUL. 2013	Graduate Student Research Assistant at National Taiwan University of Science and Technology Designed algorithms and developed systems for multimedia applications: Interactive systems for simulating facial features and hairstyle swapping in images. Privacy aware image, video, and volumetric data storage and processing. Visual analysis of time-varying network data.

EDUCATION

JUL. 2013	Ph.D., Information Management	Advisor: Prof. Chuan-Kai Yang	
	National Taiwan University of Science and Technology		
	Dissertation: Privacy Preserving Multimedia Dat	a Processing	
Jul. 2009	M.S., Information Management National Taiwan University of Science and Techr Thesis: Virtual Haircut and Hairstyle Cloning	Advisor: Prof. Chuan-Kai Yang nology	
Jul. 2007	B.S., Information Management National Taiwan University of Science and Techr	nology	

Honors & Awards

2017	Winner of PacificVis 2017 Visual Storytelling Contest
2016	Honorable Mention Paper Award, Siggraph Asia 2016 Symposium on Visualization
2015	Post-doctoral Research Abroad Grant, Ministry of Science & Technology, Taiwan
2015	Winner of Originality in IEEE VGTC VPG International Data-Visualization Contest
2012	Ph.D. Student Study Abroad Scholarship, Ministry of Science & Technology, Taiwan

SELECTED PUBLICATIONS

- Xumeng Wang, Jia-Kai Chou, Wei Chen, Huihua Guan, Wenlong Chen, Tianyi Lao, and Kwan-Liu Ma. A Utility-aware Visual Approach for Anonymizing Multi-attribute Tabular Data. IEEE Transactions on Visualization and Computer Graphics (Proceedings of IEEE VAST 2017)
- Maksim Gomov, Jia-Kai Chou, Jianping Kelvin Li, Soman Sen, Kiho Cho, Nam Tran, and Kwan-Liu Ma. Aiding Infection Analysis and Diagnosis Through Temporally-Contextualized Matrix Representations. IEEE VIS 2017 Workshop on Visual Analytics in Healthcare (VAHC 2017)
- Jia-Kai Chou, Chris Bryan, and Kwan-Liu Ma. Privacy Preserving Visualization for Social Network Data with Ontology Information. In Proceedings of 2017 IEEE Pacific Visualization Symposium
- Takanori Fujiwara, Jia-Kai Chou, Andrew M McCullough, Charan Ranganath, and Kwan-Liu Ma. A Visual Analytics System for Brain Functional Connectivity Comparison across Individuals, Groups, and Time Points. In Proceedings of 2017 IEEE Pacific Visualization Symposium
- Jia-Kai Chou, Yang Wang, and Kwan-Liu Ma. Privacy Preserving Event Sequence Data Visualization using a Sankey Diagram-like Representation. ACM SIGGRAPH ASIA 2016 Symposium on Visualization (Best Paper Honorable Mention Award)
- **Jia-Kai Chou** and Chuan-Kai Yang. Obfuscated Volume Rendering. The Visual Computer 32(12):1593-1604, 2016
- Jia-Kai Chou, Chuan-Kai Yang, and Hsing-Ching Chang. Encryption Domain Content-based Image Retrieval and Convolution through a Block-based Transformation Algorithm. Multimedia Tools and Applications 75(21):13805-13832, 2016
- Chuan Wang, Jia-Kai Chou, Kwan-Liu Ma, Arpad Karsai, Gang-Yu Liu, Ying X. Liu, Evgeny Ogorodnik, and Victoria Tran. An Interactive Visual Analysis Tool for Cellular Behavior Studies using Large Collections of Microscopy Videos. 2016 IEEE International Conference on Multimedia Big Data
- Kelvin Li, Jia-Kai Chou, and Kwan-Liu Ma. High Performance Heterogeneous Computing for Collaborative Visual Analysis. ACM SIGGRAPH ASIA 2015 Symposium On Visualization In High Performance Computing
- Jia-Kai Chou and Chuan-Kai Yang. PaperVis: Literature Review Made Easy. Computer Graphics Forum (EuroVis 2011), 30(3):721-730, 2011

PROFESSIONAL SERVICES

Program Committee Member

IEEE Pacific Visualization Symposium (2017, 2018)

Paper Reviewer (selected prestigious journals/conferences)

IEEE Information Visualization Conference (2016, 2017)

IEEE Conference on Visual Analytics Science and Technology (2016, 2017)

Eurographics/IEEE Conference on Visualization (2017)

ACM Transactions on Knowledge Discovery from Data (2016)

International Symposium on Graph Drawing & Network Visualization (2016)

IEEE International Conference on Big Data (2013, 2017)