

TARIK CRNOVRSANIN (RESUME)

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<http://tarikc.net>

Last Updated June 2020

EDUCATION

University of California, Davis (2019)

PhD Computer Science

Area: Data visualization, Networks

Advisor: Dr. Kwan-Liu Ma

☆ Best Graduate Researcher Award

University of California, Davis (2011)

MS Computer Science

Area: Data visualization,
movement data

Advisor: Dr. Kwan-Liu Ma

University of California, Davis (2008)

BS in Computer Science

SELECTED EXPERIENCE

Out of Darts (Remote) — 3D Model Designer, Web Designer, Consultant

2017-Present

- Research and development of new 3D printed products from concept to full production. Developing a web visualization to allow customers to easily customize and view their purchases.

Department of Computer Science, University of California, Davis — Lecturer

2019

- Developed lectures and assignments, taught an 8-week course on Intro to Programming using Python to over 50 students.

VIDI Labs, University of California, Davis — Graduate Researcher

2009-2019

- Designed visualizations, algorithms, and systems on various topics including graph layouts, radio signal data, dynamic network data, and movement.

- Conducted studies on best practices for animation in online dynamic networks and approaches to reduce eye fatigue.

Nokia Research Lab — Software Intern

2009

- Created a contextual tourist map on the web using Google maps, JavaScript, Python, and SQL. ☆ US Patented

SELECTED PUBLICATIONS

Staged Animation Strategies for Online Dynamic Networks (Under Review)

T. Crnovrsanin, Shilpika, S. Chandrasegaran, and KL. Ma. IEEE Trans. Visualization and Computer Graphics. In Proc. IEEE VIS 2020.

Drawing Graphs with Multi-level Maps (Under Review)

T. Crnovrsanin, KL. Ma. IEEE Trans. Visualization and Computer Graphics. In Proc. IEEE VIS 2020.

What Would a Graph Look Like in this Layout? A Machine Learning Approach to Large Graph Visualization

OH. Kwon, T. Crnovrsanin, and KL. Ma. IEEE Trans. Visualization Computer Graph, 24(1), 2018.

An Incremental Layout Method for Visualizing Online Dynamic Graphs

T. Crnovrsanin, J. Chu, and KL Ma. Conf. on Graph Drawing and Network Visualization, 2015. ☆ Best Paper

A System for Visual Analysis of Radio Signal Data

T. Crnovrsanin, Muelder C., and KL. Ma. Conf. on Visual Analytics Science and Technology (VAST) 2014.

Stimulating a Blink: Reduction of Eye Fatigue with Visual Stimulus

T. Crnovrsanin, Y. Wang, and KL. Ma. Conf. on Human Factors in Computing Systems(CHI), 2014.

SKILLS

Coding:(Proficient) C++, Python, (Knowledgable) Javascript, OpenGL. **GPQGPU:** OpenCL. **Web Client:** WebGL, Javascript, Three.js, Shopify. **DMBS:** MYSQL, PostgreSQL, MongoDB. **Image and Video Authoring:** Photoshop, Camtasia, PowerPoint. **Modeling and Design:** Fusion 360, 123Design, Maya.