

ZENING QU

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EDUCATION

- 2015-present **PhD in Information Visualization, *University of Washington***
Advisor: Prof. Jessica Hullman. Interests: Information Visualization, Data Storytelling, HCI.
- 2013-2014 **Master in Human-Centered Design & Engineering (HCI), *University of Washington***
- 2008-2012 **Bachelor in Computer Science, *Zhejiang University (Top 5 in China)***

PUBLICATIONS

- 2017 [6] **Keeping Multiple Views Consistent: Constraints, Validations, and Exceptions in Visualization Authoring.** Zening Qu, Jessica Hullman. IEEE InfoVis, 2017. [pdf](#) 🏆 **InfoVis Best Paper Honorable Mention.**
- 2017 [5] **Voyager 2: Augmenting Visual Analysis with Partial View Specifications.** Kanit Wongsuphasawat, Zening Qu, Dominik Moritz, Riley Chang, Felix Ouk, Anushka Anand, Jock Mackinlay, Bill Howe, Jeffrey Heer. ACM CHI, 2017. [pdf](#)
- 2016 [4] **Evaluating Visualization Sets: Trade-offs Between Local Effectiveness and Global Consistency.** Zening Qu, Jessica Hullman. BELIV Workshop, 2016. [pdf](#)
- 2014 [3] **Matryoshka: Design of NDN Multiplayer Online Game.** Zhehao Wang, Zening Qu, Jeff Burke. ACM ICN Demo, 2014. [pdf](#)
- 2013 [2] **Linear Time-Invariant System Based Assessment Model for Coronary Heart Disease.** Zening Qu, Yongqiang Lyu, Yida Tang, Wenyao Wang, Zihan Wang, Jiaming Hong, Nazim Agoulmine. IEEE HealthCom, 2013. [pdf](#)
- 2012 [1] **Egal Car: A Peer-to-Peer Car Racing Game Synchronized Over Named Data Networking.** Zening Qu, Jeff Burke. UCLA Technical Report, 2012. [pdf](#)

EXPERIENCE

- 2015-present **University of Washington - Research Assistant, *Interactive Data Lab***
with Profs. Jessica Hullman and Jeffrey Heer
- Led a wizard-of-oz study of Tableau users creating multiple views. Published how authors achieve and sacrifice consistency (defined by constraints) in Tableau [6,4]. Led implementation of consistency constraints in an open-source authoring tool.
- Co-developed *Voyager2*, a novel mix-initiative system that blends breadth-first and depth-first search strategies in exploratory data analysis [5]. Co-conducted a user study showing *Voyager2* accelerates data exploration compared to *PoleStar*, a Tableau-like benchmark.
- Led design and development of *Vega-Tooltip*, an open-source JavaScript library that adds tooltip (with smart defaults) to *Vega-Lite* and *Vega* visualizations. [GitHub](#)
- 2015 Feb-Sep **Microsoft - Software Development Engineer, *Corporate Functions IT***
with Shiran Sathananthan and Puneet Taneja
- Led UX design and co-developed *Microsoft for Nonprofit Eligibility Engine*, a web tool for Microsoft to give donations to nonprofits, and for nonprofits to check their eligibility.
- 2011-2013 **UCLA - Research Assistant, *Center for Research in Engineering, Media and Performance***
with Profs. Jeff Burke and Lixia Zhang
- Led design and development of *Memoria Barrial*, an interactive visualization installation that aim to raise people's awareness of history in fast-growing neighborhoods. Launched in a Buenos Aires train station in 2011. [Web](#)
- Led design and development of the first multiplayer online games *EgalCar* [1] and *Matryoshka* [3], in which the game states are synchronized over *Named-Data Network*, a possible future Internet architecture.

- 2012-2013 **Tsinghua University - Research Assistant**, *Research Institute of Information Technology*
with Prof. Yongqiang Lyu
Published linear time-invariant models' potentials in predicting coronary heart diseases by fitting models to clinical golden standards [2].
- 2011-2012 **Zhejiang University - Research Assistant**, *CAD&CG National Laboratory*
with Prof. Qunsheng Peng
Co-designed and co-developed a video segmentation and stylization pipeline using optical flow to improve cross-frame consistency.

INVITED TALKS

- 2017 Dec **Keeping Multiple Views Consistent**, *Tableau, Seattle, WA*

SERVICE

- 2018 **ACM CHI 2018** External Reviewer
2017 **ACM CHI 2017** External Reviewer
2017 **IEEE VIS 2017** Student Volunteer
2013 **IEEE HealthCom 2013** Student Volunteer

TEACHING

- 2018 Winter **HCDE 593 Master Capstone**, *University of Washington*
Graduate Teaching Assistant for Dr. Liz Sanocki
- 2017 Winter **INFX 474 Interactive Information Visualization**, *University of Washington*
Graduate Teaching Assistant for Prof. Jessica Hullman
- 2016 Winter **HCDE 517 Usability Studies**, *University of Washington*
Graduate Teaching Assistant for Dr. Daniella A Kim
- 2015 Autumn **HCDE 518 User-Centered Design**, *University of Washington*
Graduate Teaching Assistant for Dr. Liz Sanocki

AWARDS & HONORS

- 2017 **IEEE InfoVis Best Paper Honorable Mention Award**
- 2015 **Graduate School Top Scholars Award**, *University of Washington*
- 2012 **Chu Ko-Chen Honor Student**, *Zhejiang University*
- 2011 **Cross-disciplinary Scholarship in Science and Technology**, *UCLA*
- 2011 **Microsoft Young Scholar Nominee**
- 2011 **Meritorious Winner, The Mathematical Contest in Modeling**

SKILLS

- Technical Tableau, Vega-Lite, D3, TypeScript, JavaScript, HTML/CSS, React, AngularJS, Bootstrap, C#, C, C++, Unity3D, Git, npm, Python, Matlab, LaTeX
- Visual Photoshop, Illustrator, Balsamiq, OmniGraffle, Final Cut Pro