

Melanie Bancilhon

mbancilhon96.github.io

Department of Computer Science & Engineering
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Education

Washington University in St. Louis

Sep 2019 - Present

Ph.D. in Computer Science

Advisor: Dr. Alvitta Ottley

Smith College

Sep 2015 - May 2019

B.A. Computer Science

B.A. Art and Architecture

Publications

Bancilhon M., Wright A.J., Sunwoo H., Crouser R.J., Ottley A. (2022) (In Submission). Why Combining Text and Visualization Could Improve Bayesian Reasoning: A Cognitive Load Perspective.

Kumar A., Vasileiou S., **Bancilhon M.**, Ottley A. and Yeoh W. (2021) (In Print). VizXP: A Visualization Framework for Conveying Explanations to Users in Model Reconciliation Problems.

Bancilhon M., Constantinides M., Bogucka E.P., Aiello L.M., Quercia D. (2021). Streetonomics: Quantifying culture using street names. PLoS ONE 16(6): e0252869

Bancilhon, M., Liu, Z., Ottley, A. (2020). Let's Gamble: How a Poor Visualization Can Elicit Risk Behavior. *In 2020 IEEE Visualization Conference (VIS) (pp. 196-200). IEEE.*

Bogucka, E.P., Constantinides, M., Aiello, L.M, Quercia, D., So, W., **Bancilhon, M.** (2020). Cartographic Design of Cultural Maps. *IEEE Transactions on Computer Graphics and Applications.*

Book Chapter

Bancilhon, M., Padilla, L., Ottley, A. (2021) (In Print). Cognitive Frameworks for Decision-Making with Visualization. Book of Visualization Psychology. Springer

Peer Reviewed Workshop Papers & Posters

Bancilhon, M., Ottley, A. (2020). Did You Get The Gist Of It? Understanding How Visualization Impacts Decision-Making. *IEEE Transactions on Visualization and Computer Graphics*.

Ha, S., **Bancilhon, M.**, Ottley, A. (2020). Expectation Versus Reality: The Failed Evaluation of a Mixed-Initiative Visualization System. *IEEE Transactions on Visualization and Computer Graphics*.

Liu, Z., **Bancilhon, M.**, Ottley, A. (2019). Icons are Best: Ranking Visualizations for Proportion Estimation. *IEEE Information Visualization*.

Professional Experience

Adobe Research May 2022 - Present
Mentors: Alexa Siu, Nedim Lipka, Ryan Rossi
Developed an impact-oriented human-AI teaming framework to improve agreement understanding and optimize decision-making.

Human Computation & Visualization Laboratory, Smith College Jan 2019 - May 2019
Principal Investigator: Jordan R. Crouser
Uncovered gender representation patterns in popular media by applying the Bechdel test to series scripts.

Social Dynamics Group, Nokia Bell Labs June 2018 - August 2018
Principal Investigator: Daniele Quercia
Researched urban historical, cultural and societal patterns encoded in a city's network of street names.

Teaching Experience

Mentored Teaching Experience
Introduction to Visualization, Washington University in St. Louis 2020
Instructor: Dr. Alvitta Ottley

Invited Talks

Guest Lecturer
Visualization for Decision-Making @ Worcester Polytechnic Institute 2021

Guest Speaker

Visualization Design Studio @ Columbia School of Nursing

2022

Awards & Distinctions

Sigma Xi Honor Society

2019

Grace Hopper Celebration Scholar

2018

NSF SCH Workshop Smart Health in the AI and COVID Era Student Awardee

2021

Academic Service*Student Committee Member*

Fourth Workshop on Visualization for Communication (VisComm)

2021

Conference Reviewing

IEEE Visualization for Communication (VisComm)

2020

European Creative Industry Summit (ECIS)

2020

IEEE Visualization for Communication (VisComm)

2022

IEEE Visualization Conference

2022