

Melanie Bancilhon

mbancilhon96.github.io

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Education

Washington University in St. Louis

2019 -

Ph.D. in Computer Science

Advisor: Dr. Alvitta Ottley

Smith College

2015 - 2019

B.A. Computer Science

B.A. Art and Architecture

Publications

Bancilhon M., Wright AJ., Sunwoo H., Crouser R J., Ottley A. (2021) (In Submission). A Cognitive Load Perspective on the Impact of Visualization on Bayesian Reasoning.

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 EP., Aiello LM., 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*.

Research Experience

Visual Data Analytics Group, Washington University in St. Louis 2019 -
Principal Investigator: Alvitta Ottley
Investigates the impact of visualization on cognitive mechanisms and decision-making.

Human Computation & Visualization Laboratory, Smith College 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 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

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

Volunteering & Service

Student Committee Member

Fourth Workshop on Visualization for Communication (VisComm) 2021

Conference Reviewing

IEEE Visualization for Communication (VisComm) 2020

Community

Learning Lodge Tutor, Math 7th grade 2020

Data.org Inclusive Growth and Recovery Challenge Reviewer 2020

University Service

Computer Science & Engineering Graduate Student Senate Representative 2020 -

WashU First Gen Program Mentor 2021 -