

# Melanie Bancilhon

Department of Computer Science & Engineering  
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## Education

<b>Washington University in St. Louis</b> Ph.D. in Computer Science <i>Advisor:</i> Dr. Alvitta Ottley	2019 -
<b>Smith College</b> B.A. Computer Science B.A. Art and Architecture	2019

## Publications

### *Book Chapter*

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

**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. *IEEE Transactions on Visualization and Computer Graphics*.

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*.

## 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

Investigating the impact of visualization on real-life decision-making by creating an evaluation framework derived from economic theory.

Human Computation & Visualization Laboratory, Smith College 2019  
*Principal Investigator:* Jordan 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
<i>University Service</i>	
Computer Science & Engineering Graduate Student Senate Representative	2020 -
WashU First Gen Program Mentor	2021 -