

maximilian  
klein

research area

education

experience

publications-  
papers



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### **Human-Computer Interaction, Computer Supported Collaborative Work, Feminist Theory.**

I connect social science theories (normativity in design) with quantitative methods (machine learning, statistical analysis) to promote diverse thinking online.

#### **University of Minnesota, Twin Cities**

9/ 2015 - Present

*Ph.D., Computer Science – In Progress*

Research Group: GroupLens. Advisor: Prof. Haiyi Zhu

Focus on methods in human-computer interaction and data science.

#### **University of California, Berkeley**

2007 - 2011

*B.A., Pure Mathematics*

Education in functional programming with scheme for computability theory. Further emphases in classical and fuzzy logic, abstract algebra, and statistics.

#### **Wikimedia Foundation Grantee**

4 / 2015 - Present

*Project Manager & Lead Developer*

<http://wigi.wmflabs.org/>

With woman-focused "Inspire" grant created *WIGI*, Wikidata Indicator of Gender Inequality, a weekly-updated dataset of of gender bias in all biographies on all Wikipedias, sliced by date and place of birth, language, and occupation.

#### **Crossref & Wikiproject Open Access**

2 / 2014 – 4 / 2015

*Lead Developer and Researcher*

<https://github.com/wpoa>

Developed real-time application watching for citations on all Wikipedias, then uploading the Open Access papers to Wikisource for deeplinking and usage tracking.

#### **OCLC Research**

5 / 2012 - 3 / 2014

*Research Assistant, Wikipedian in Residence*

<http://hangingtogether.org/?cat=51>

Bridging the gap between library data and Wikipedia. Racked up over 2 million Wikipedia edits with custom-written bot to augment article metadata using Library data.

#### **Creative Commons Grantee**

5 / 2012 - 3 / 2013

*Project Manager, Developer*

<http://untrikiwiki.com/>

Extended MediaWiki to support the LRMI educational metadata standard.

#### **The Virtuous Circle of Wikipedia**

3 / 2014

**CSCW 2015** Computer-Supported Collaborative Work **Acceptance Rate: 25%**

*Maximilian Klein, Thomas Maillart, John Chuang*

[https://github.com/notconfusing/wiki\\_econ\\_capability/blob/master/paper/cscw/cscw2015.pdf](https://github.com/notconfusing/wiki_econ_capability/blob/master/paper/cscw/cscw2015.pdf)

We propose a measure of the "collaborativeness" of a group of socio-technical participants by calibrating correlations between rankings given by an extension of the Google PageRank algorithm and exogenous metrics. Results on the English Wikipedia categories are presented, accurately predicting edit wars.

#### **VIAFbot and the Integration of Library Data on Wikipedia**

10 / 2013

**Code4Lib Journal** · Maximilian Klein, Alex Kyrios

<http://journal.code4lib.org/articles/8964>

publications-  
in submission  
and working

publications-  
posters

publications-  
other

A case study of a project that successfully added authority data to hundreds of thousands of articles on the English Wikipedia, and paved the way for doing so in all other Wikipedias.

## Lessons from the classroom: successful techniques for teaching wikis using Wikipedia 11 / 2010

*WikiSym '11* · Frank Schulenburg, LiAnna Davis, Max Klein  
<http://dl.acm.org/citation.cfm?id=2038558.2038613>

"[...]Max Klein explains the success of his classroom use of a WikiProject page as a springboard for class discussion and homework assignments."

## Wikidata Human Gender Indicators: An Open Dataset

*Maximilian Klein, Harsh Gupta, Vivek Rai, Haiyi Zhu*

WHGI is an inequality index allowing comparative study of gender inequality through time, space, culture, and language editions. Based on the Wikidata.org dataset, we create a monthly-updated freely licensed dataset for use in academia.

## Gender Gap Through Time and Space

*Maximilian Klein, Piotr Konieczny*

<http://arxiv.org/abs/1502.03086>

Leveraging our work on WHGI, we conduct historical and sociological observational analyses of Wikipedia. We interrogate the dimensions of world cultures, article quality, local heroes, and celebrity bias to illustrate the character of biases found.

## Airbnb and Couchsurfing: Power, Money, and Trust

*Maximilian Klein, Isaac Johnson, Jie Kang*

Dual users of both paid and non-paid network hospitality sites are frequent. We conduct interviews to understand how they are used in conjunction and to what degree they compete with and complement one another.

## Wikipedia in the World of Global Gender Inequality Indices 8 / 2015

*OpenSym '15* · Authors: Maximilian Klein

<http://notconfusing.com/opensym15/>

Explicates how Wikipedia's biographical bias is closer to the gender bias in highly-qualified jobs than longevity is evidence for sexism in policies.

## Recursive Measures of Quality and Expertise on Wikipedia 10 / 2014

*NetSci '14* · Authors: Maximilian Klein, Thomas Maillart

<http://notconfusing.com/the-virtuous-circle-of-wikipedia-the-poster/>

Translated the *method of reflections* into Wikipedia editor-article domain, and presented initial results.

## The Universal Empathy Machine: Nonviolent Communication Explained with Mathematics and Computer Science 7 / 2015

[http://arachne.cc/issues/00/universal-empathy-machine\\_max-klein.html](http://arachne.cc/issues/00/universal-empathy-machine_max-klein.html)

"If a human is a program and human experience is data, sympathy is analogous to running your program on someone else's data. Empathy is running their program on their data."

## Implicit and Explicit Transference of Gender Normativity in Collaborative Software 4 / 2015

<https://feministcscw2015.files.wordpress.com/2015/01/implicit-and-explicit-transference-of-gender-normativity-in-collaborative-software.pdf>

"Wikidata had only very recently been a blank slate and users were literally coding the gender binary as a logical constraint into the software."

## Asking Ever Bigger Questions With Wikidata 2 / 2015

<http://blog.wikimedia.de/2015/02/16/asking-ever-bigger-questions-with-wikidata/>

"At this point we could ask what are the differences in the belief systems of any two languages?"

## grants

### **Wikimedia Foundation Engagement Grant** 5/2015 - 5/2016

[https://meta.wikimedia.org/wiki/Grants:IEG/WIGI:\\_Wikipedia\\_Gender\\_Index](https://meta.wikimedia.org/wiki/Grants:IEG/WIGI:_Wikipedia_Gender_Index)

Principal Investigator on WIGI: Wikipedia Gender Index. Total: \$22,500

### **Creative Commons LRMI Grant** 5/2012 - 3/2013

<https://lornamcampbell.wordpress.com/2014/09/04/lrmi-implementation-cases-study-untrikiwiki/>

Principal Investigator on effort for MediaWiki to support LRMI. Total: \$20,000

## teaching

### **Graduate Teaching Assistant** Spring 2016

*University of Minnesota*

Explicated discrete mathematics to honors-level undergraduates. (CSCI 2011H)

### **Sudo Room Hackerspace** 2011 - 2015

*Founding Member and Treasurer*

Leader and participant of community education in formal Logic and 3D printing.

### **Certified Yoga Teacher** 2015 - Present

*Yoga Garden San Francisco – 200 hour*

Specialising in computer-related injuries and Men's bodies.

## skills

### **Programming languages**

Python (10k+ sloc), R (ggplot 5k+ sloc), Java (2k+ sloc), Scheme (2k+ sloc), bash, SQL, Matlab.

Other skills: Linux (10+ years), git, vector and raster graphics, 3d modelling.

Conferences: CSCW, alt.chi, Wiki Research Newsletter.

English (native), Hebrew (intermediate), Spanish (beginner), Lojban (beginner).

## reviewing languages