



SCHOOL OF HUMANITIES AND SCIENCES



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Gendered in Science, Health & Medicine, Innovations Engineering, and Environment

| Home | Contributors | Links | Contact Us

Search The Site

ENVIRONMENT



SEX & GENDER ANALYSIS

Methods

Terms

Checklists

CASE STUDIES

Science

Health & Medicine

Engineering

Environment

POLICY

INSTITUTIONAL TRANSFORMATION

Sign up for updates

How to cite website







Why Gendered Innovations?

"Gendered Innovations" employs methods of sex and gender analysis to create new knowledge.

Gendered Innovations

- 1) develop state-of-the-art Methods of sex and gender analysis
- 2) provide Case Studies to illustrate how gender analysis leads to innovative science and technology.

Machine Learning

Unconscious gender bias from the present amplifies gender inequality in the future.

 When trained on historical data, the system inherits bias (including gender bias).

Analyzing Gender reveals

- A search of Google images for the term "CEO" returns 11% women, when, in fact, women are 27% of CEOs in the US.
- Ads for high-paying jobs are more often shown to men than women.
- Google Translate defaults to the masculine pronoun.

Gendered Innovations

Fairness, Accountability, and Transparency in Machine Learning project

- "AdFisher"
- Fairness through Awareness

Gendered Innovations

▶ The goal is to design algorithms that optimize fairness.

Continue to Gendered Innovations

- Public Transportation: http://genderedinnovations.stanford.edu/casestudies/transportation.html
- Climate Change: http://genderedinnovations.stanford.edu/casestudies/climate.html
- Genetics of Sex Determination: http://genderedinnovations.stanford.edu/casestudies/genetics.html
- Policy: http://genderedinnovations.stanford.edu/policy_landing.html