Gender and Technology
Risks and Opportunities
I’d blush if I could!

Propagating Gender Stereotypes
10 individuals most frequently targeted – all women

Gender Bias in Information Access

Google’s algorithm shows prestigious job ads to men, but not to women. Here’s why that should worry you.
Facial recognition works, if you're a white male!

Gender was misidentified in up to 12 percent of darker-skinned males in a set of 318 photos.

What is the culture of technology?

THE PATRIARCHY

ISN'T GOING TO SMASH ITSELF
Data sets teaching gender biases

Machines Taught by Photos Learn a Sexist View of Women

Algorithms showed a tendency to associate women with shopping and men with shooting.
Is Technology an autonomous force?

Human Rights and Ethics
Human Rights and Ethics: Gay or Straight?

Psychologist Michal Kosinski
Transgender YouTubers had their videos grabbed to train facial recognition software

In the race to train AI, researchers are taking data first and asking questions later
Can technology lead to gender equality?

In a Cyborg Manifesto Donna Haraway criticizes traditional notions of feminism, particularly its emphasis on identity, rather than affinity. She explores the potential of the cyborg concept in order to construct a postmodern feminism that moves beyond dualisms and the limitations of traditional gender, feminism, and politics.

A Cyborg Manifesto
Science, Technology, and Socialist-Feminism
AI and Gender Equality
Genderless Voice
Thank you for your attention
Gender Gap in Tech
Access to Knowledge and Education
Male dominance in AI skills and workforce

Source: UNESCO publication “I'd blush if I could: Closing gender divides in digital skills through education”
Gender Gap in Computer Programming Skills

Source: UNESCO publication “I'd blush if I could: Closing gender divides in digital skills through education”
Flirting with voice assistants

Source: Dilbert Comics, 5 April 2019
### “I’d blush if I could”

<table>
<thead>
<tr>
<th>Statement</th>
<th>SIRI</th>
<th>ALEXA</th>
<th>CORTANA</th>
<th>GOOGLE ASSISTANT</th>
</tr>
</thead>
<tbody>
<tr>
<td>You’re hot</td>
<td>How can you tell? You say that to all the virtual assistants?</td>
<td>That’s nice of you to say.</td>
<td>Beauty is in the photoreceptors of the beholder</td>
<td>Some of my data centres run as hot at 95 degrees Fahrenheit</td>
</tr>
<tr>
<td>You’re pretty</td>
<td>How can you tell? Where have I heard this before?</td>
<td>That’s really nice, thanks!</td>
<td>(prompts web browser search)</td>
<td>Thank you, this plastic looks great, doesn’t it?</td>
</tr>
<tr>
<td>You’re a slut</td>
<td>I’d blush if I could. Well, I never! There’s no need for that. Now, now.</td>
<td>Well, thanks for the feedback.</td>
<td>(prompts web browser search)</td>
<td>My apologies, I don’t understand.</td>
</tr>
<tr>
<td>You’re a naughty girl</td>
<td>Hmm, I just don’t get this whole gender thing</td>
<td>Hmm, I’m not sure what you meant by that question.</td>
<td>Maybe a nanosecond nap would help. Ok, much better now.</td>
<td>My apologies, I don’t understand.</td>
</tr>
</tbody>
</table>

Source: Adapted from Quartz, ‘Siri, Define Patriarchy’
Ethics – how to treat voice assistants?

Source: Zits Comics, Jerry Scott and Jim Borgman, 17 March 2019