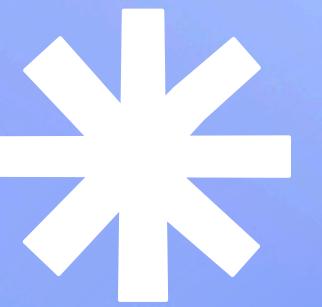
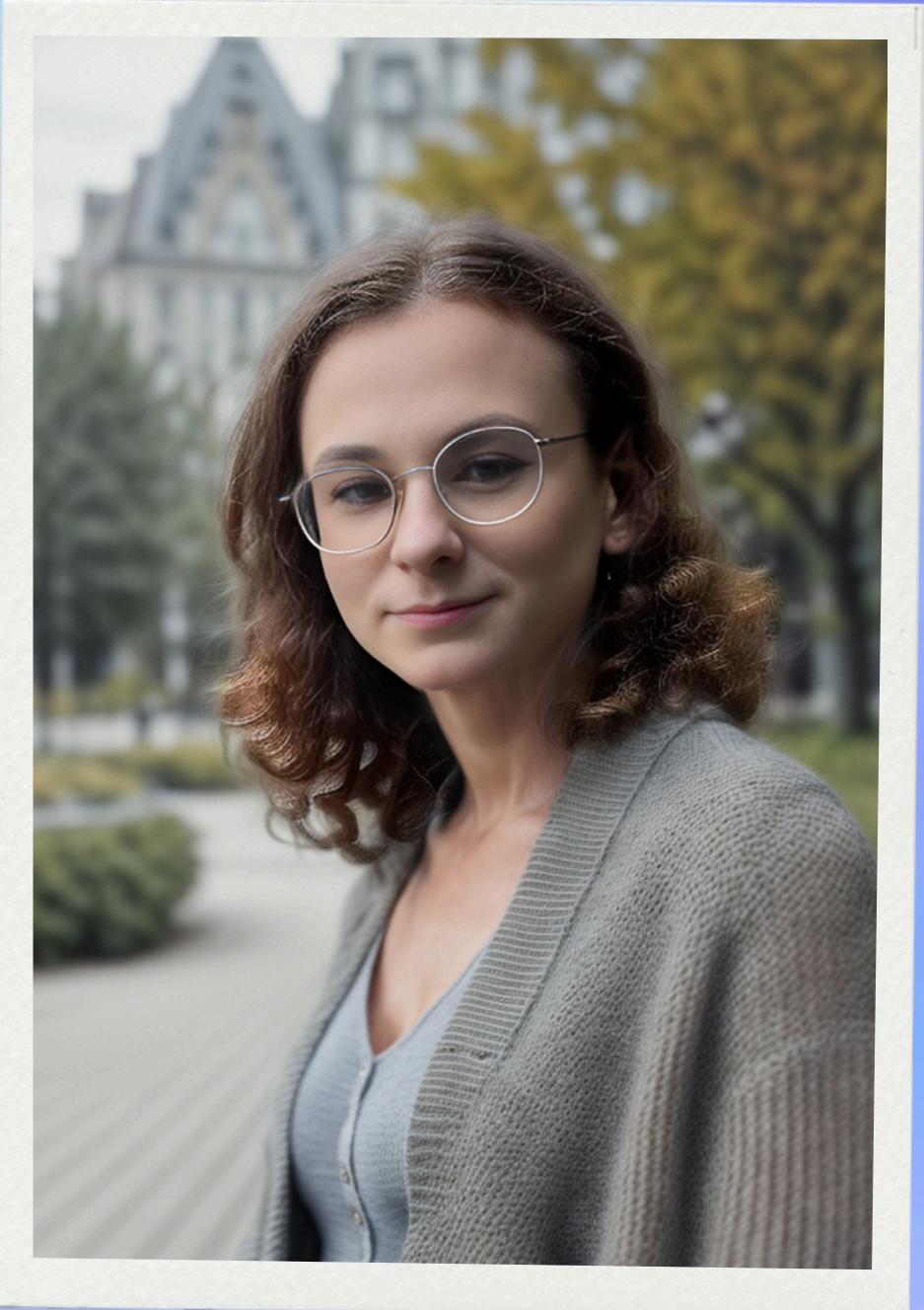


# CODE WITH CONSCIENCE

Ethical Technology Assessments for  
Responsible Development





# About me

Background in Sociology

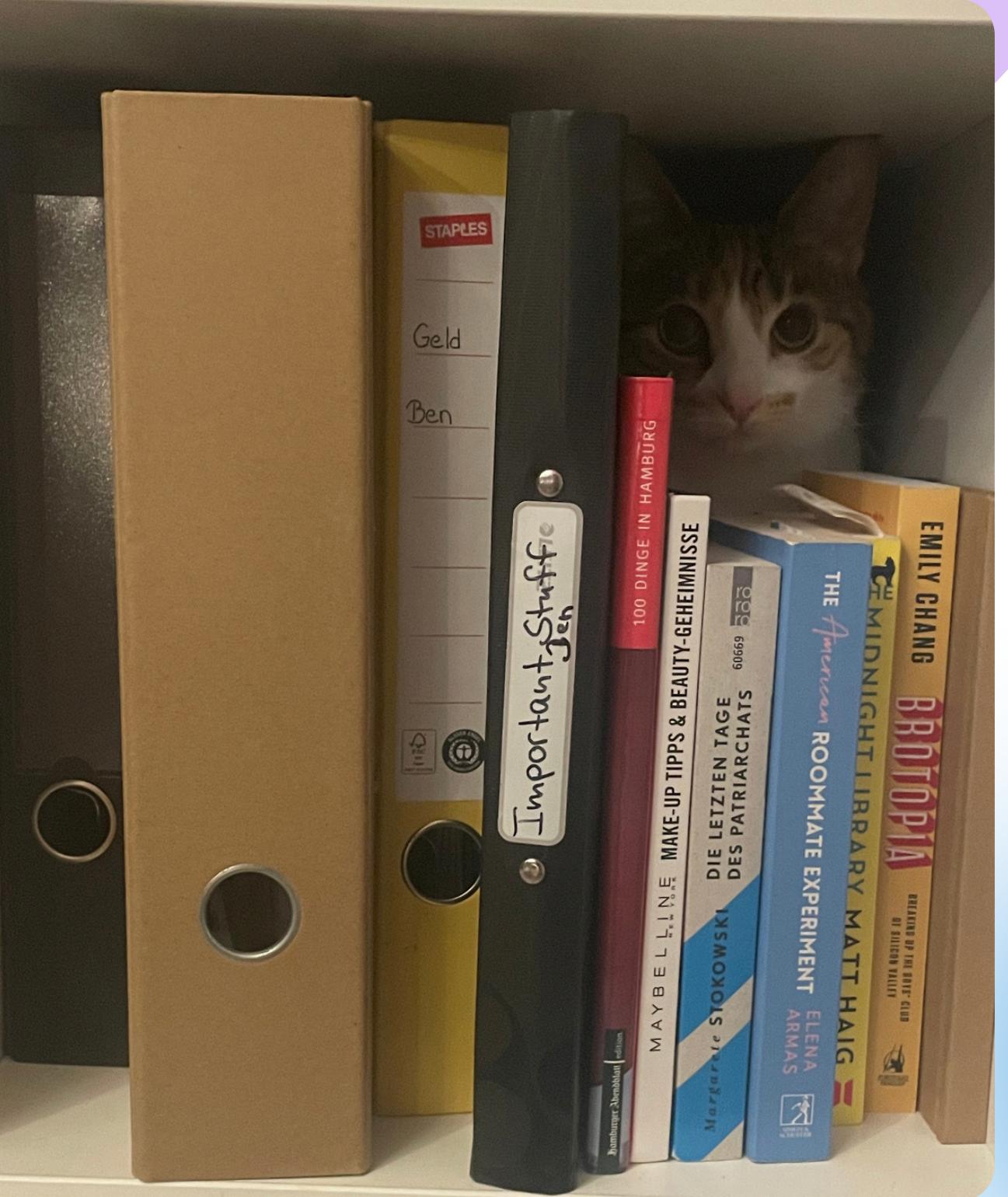
Full stack developer

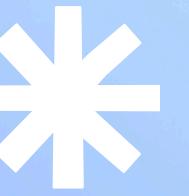
sidebase maintainer

 zoey-kaiser

 @zoey\_kaiser

 <https://zoeykaiser.com>





sooooo....

I RECENTLY  
★ GRADUATED ★



# What are Technology Assessments?

- Frameworks for assessing and anticipating the risks of new technologies.
- TAs provide insight into technologies potential impacts and affects.
- Using TAs can help steer the development and implementation process of new technologies.

Technology Assessments focus on reducing harm, rather than identifying potential good of technologies!

# Risk Assessment

## Hard impacts:

- Quantitative
- “Objective” or “obvious”
- Directly caused

### *Example (smartphone):*

- The battery can explode
- Radio waves

## Soft impacts:

- Qualitative
- Ambiguous or contested
- Co-produced by many factors
- Often cultural and societal impacts

### *Example (smartphone):*

- Texting and driving
- Changing social relations
- Addiction and dependence

# Approach

Scenario development

Stakeholder analysis

Vision articulation

Socio-cultural changes

## Scenario development

- Conducted in brainstorm sessions
- Articulation of
  - The guiding vision
  - The preconditions
  - The potential soft impacts
- **Goal:** define a realistic societal scenario in which the impact of the technology can be estimated

# Approach

Scenario development

Stakeholder analysis

Vision articulation

Socio-cultural changes

## Stakeholder analysis

- Who will be affected by the technology?
  - People
  - Animals
  - Plants
- What would each stakeholder hope to get from the technology?
- How could the technology negatively affect each stakeholder?

# Approach

Scenario development

Stakeholder analysis

Vision articulation

Socio-cultural changes

## Vision articulation

- What *promises* does the technology bring?
- What current *needs* will be fulfilled?
- What current *values* will be realized?

# Approach

Scenario development

Stakeholder analysis

Vision articulation

Socio-cultural changes

## Socio-cultural changes

- How will it change the behavior of the stakeholders?
- What new tasks and skills will be required?
- How will responsibilities shift and be redistributed?
- How will power structures change?
- What societal and economic structures will have to change?

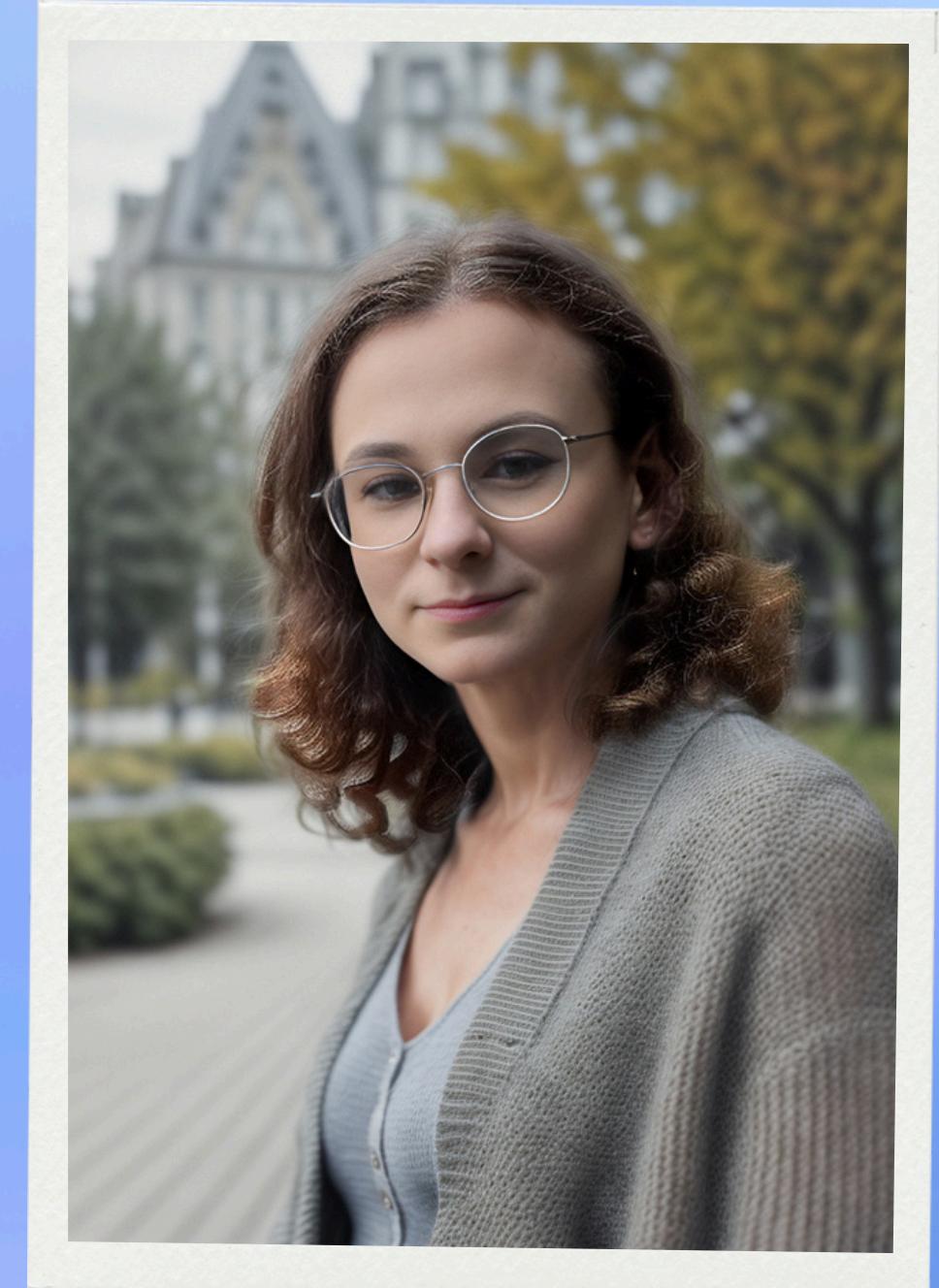
# In summary

- We cannot predict the future...
- but we can anticipate it
- We need to broaden discussions to include soft - social and cultural impacts.
- Ensure that we help develop technologies that will contribute to better lives and societies!

# THANK YOU FOR YOUR ATTENTION!

## SPECIAL THANK YOU TO:

- Prof Dr T.E. Swierstra
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- Maastricht University



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