



Introductions

Honors seminar



Introduction

Bart Knijnenburg

Current: Clemson University

Assoc. Prof. in Human-Centered Computing

University of California, Irvine

PhD in Informatics

Carnegie Mellon University

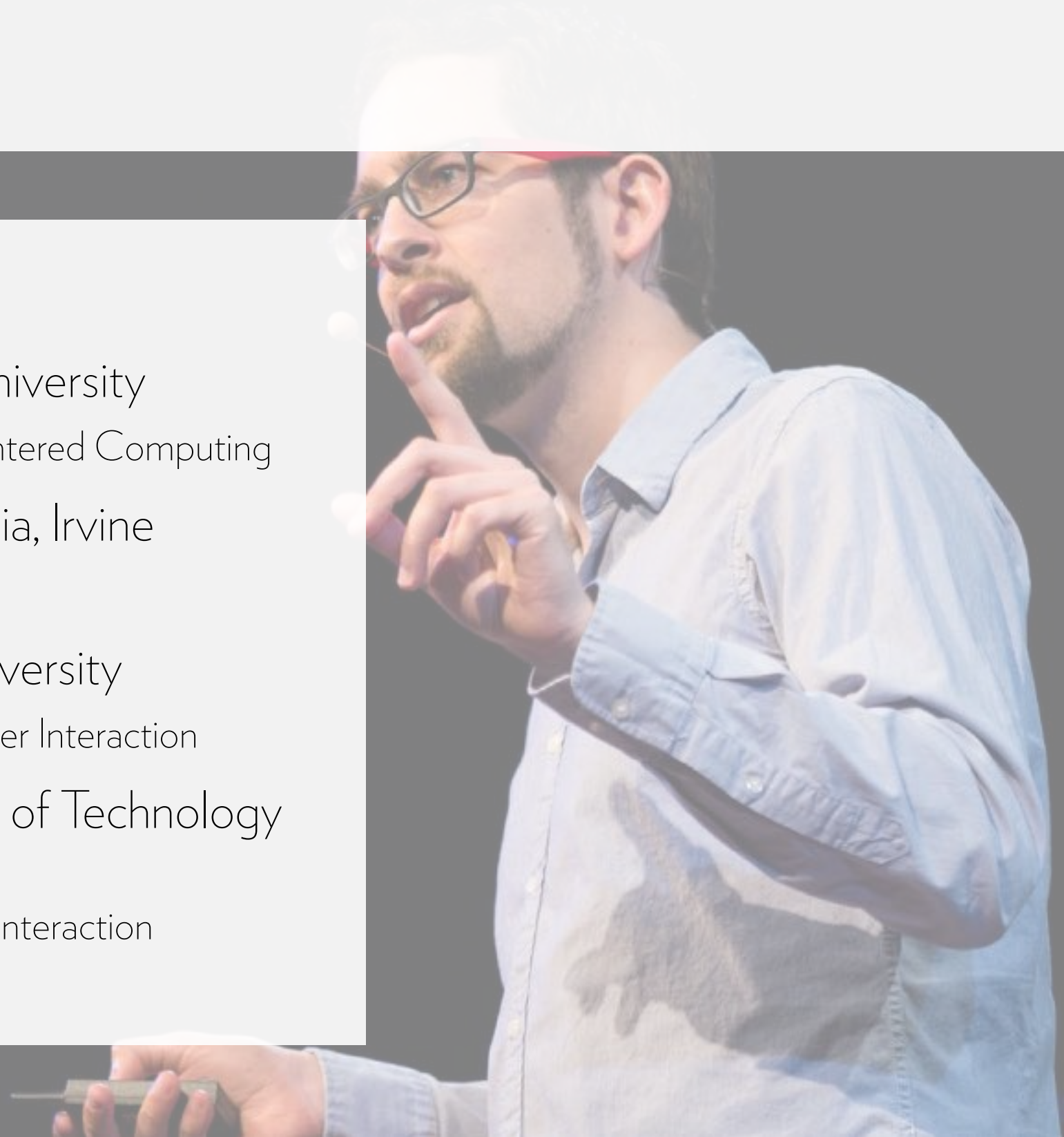
Master in Human-Computer Interaction

Eindhoven University of Technology

Researcher & teacher

MS in Human-Technology interaction

BS in Innovation Sciences





Introduction

BS in Innovation Sciences (Eindhoven University of Technology)

1/3rd science courses (CS for me)

1/3rd social sciences (psych, econ, business, philosophy, history)

1/3rd project work

Goal: build a bridge between the human and technological aspects of innovations

Project: Cognitive Modeling Tools for Usability Evaluation





Introduction

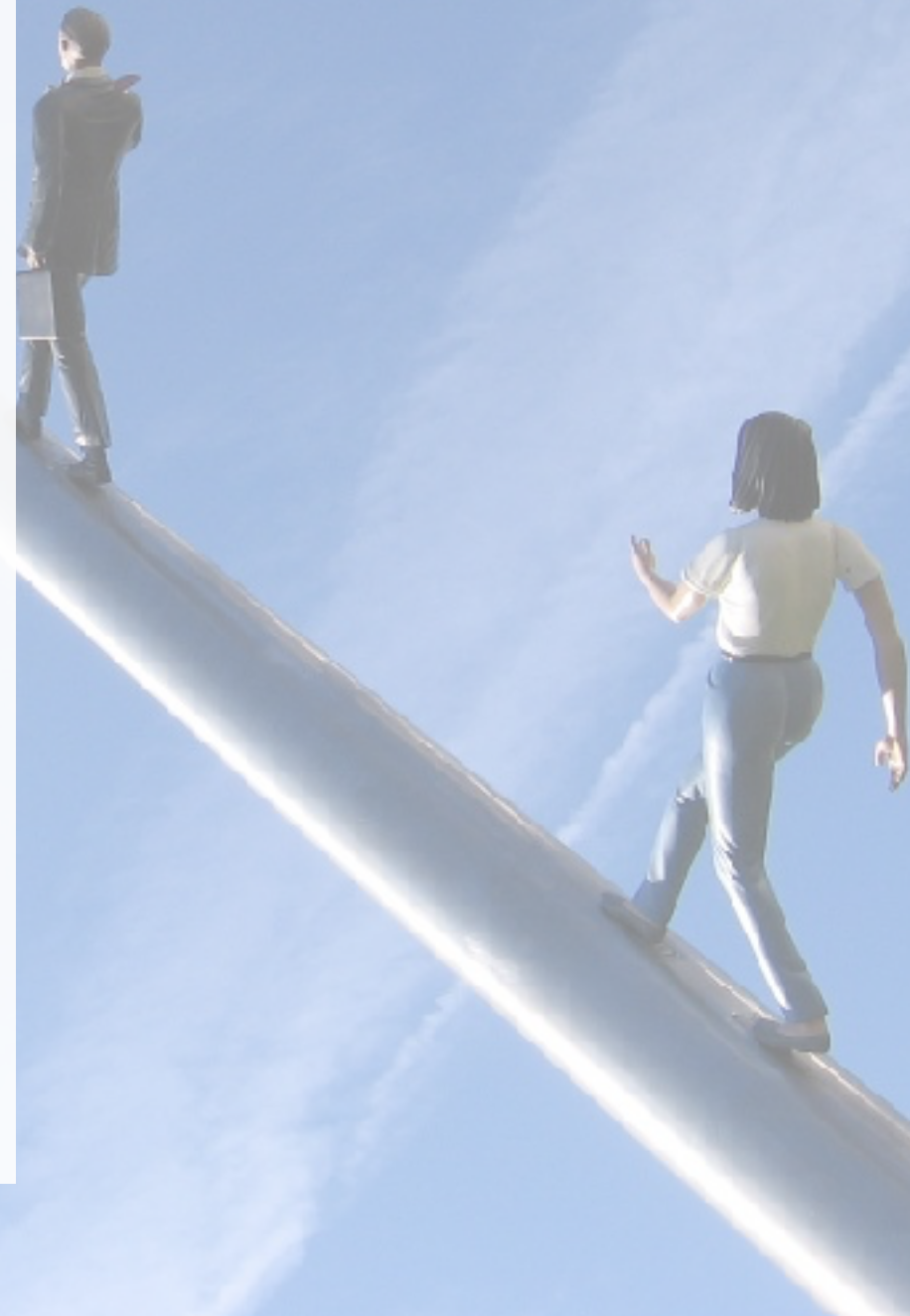
M in Human-Computer Interaction
(Carnegie Mellon)

Core courses on HCI, Interaction
Design, Prototyping, Evaluation

Breadth courses on Machine Learning,
Cognitive Modeling, etc.

Goal: learn what it is like to be an
interaction designer at Google or Microsoft

Project: A Social Event Planning Prototype
for Google





Introduction

Interaction Designer at Aduna/Vound

New interaction mechanisms for
enterprise search

Consulting for the insurance
industry

Cybercrime investigation software

Goal: be an interaction designer for
real





Introduction

MS in Human-Technology Interaction
(Eindhoven)

Core courses on Psychology and Human
Behavior

Strong research component

Goal: become an HCI researcher

Project 1: Inferring Capabilities of Intelligent
Agents from their External Traits

Project 2: A User-Adaptive Interface for an
Energy-Saving Recommender System



Introduction

Researcher/Teacher at Human-Technology Interaction (Eindhoven)

Research on user-centric evaluation of recommender systems

Taught a course called “Thinking and Deciding”

Goal: be an HCI researcher for real

Project: Explaining the user experience of recommender systems





Introduction

PhD in Information and Computer Sciences
(UC Irvine)

Research on privacy decision-making

Taught “Human Factors for the Web”

(Co-)authored over 30 peer-reviewed
articles

Sponsored by NSF, Samsung, Intel,
Ericsson, Google

Goal: become a professor

Project: A User-Tailored Approach to Privacy
Decision Support





Introduction

Associate Professor in Human-Centered Computing (Clemson University)

Privacy decision-making (in IoT, in learning and training systems, on smartphones, on social networks, in adaptive systems)

Recommender systems (that use emotions, for self-actualization, to burst filter bubbles)

A lot of other stuff (human-like interfaces, social media use, technology adoption, racial diversity in video games, automatic post translation, etc. etc.)

Goal: be a professor for real





Introduction

Hobbies:

Running

Photography

Cooking (mostly outside)

Cycling (more of a lifestyle)

Also: taking care of Tolga and Arda

My two sons





Introduction

Tell me a little more about yourself:

Who are you, where are you from?

A fun thing you did during the summer

Something you look forward to this Fall





Course content

What are we going to do?



Course content

This course consists of two parts:

1. Teach you about doing research in Computing (my task)
2. Preparing for your Honors Research project (your task)

Most of the “class” hours will be discussions (part 1)

Prepare for the discussion by doing the readings

As homework you’ll prepare for your honors project (part 2)

You will report back on some of this in class



Course content

Topics (part 1):

- Types of CS research
- Studying people and data
- Scientific ethics
- Reading papers and literature review
- Writing a research plan, writing a paper
- Presenting your work
- Getting internships, getting into grad school



Course content

Process (part 2):

- Think about your personal interests
- Investigate potential advisors and meet with them
- Select an advisor and scope your research area, create a list of papers to read
- Read and reflect upon the papers
- Develop a research idea and write a research plan



Course content

Any questions at this point?

Syllabus:

<https://www.usabart.nl/honors>





Your interests

Getting to know you



Your interests

Let's get to know each other a little better:

Why did you choose CS at Clemson?

What activities did you do besides school (hobbies, extracurriculars, etc.)?

What are your future plans (career, family, etc.)?

What is something you are really passionate about?

Something you like that most others don't like?

Something you don't like that most others like?



Your interests

Have you done research before?

With whom?

What was it like?

Do you have an idea of the type of research you want to do?

See <https://www.clemson.edu/cecas/departments/computing/research/researchareas.html>



In the next 2 weeks

Go through the faculty on the SoC website

Go through their faculty profiles

Find their personal websites

Find their Google Scholar profiles

(https://scholar.google.com/citations?view_op=search_authors&mauthors=first+lastname)

Skim some of their papers (read the abstracts)

Create a list of people that do interesting work

Reduce your list to 4-5 faculty members