# My CAREER journey

What to do (and not to do) when you're applying for a CAREER award...



## Hello! I'm Bart!

Current: Clemson University

Associate Prof. in Human-Centered Computing

UC Irvine

PhD in Informatics (privacy)

Carnegie Mellon

M in Human-Computer Interaction

TU Eindhoven

Researcher & Teacher

MS in Human-Technology Interaction (recommender systems)

BS in Innovation Sciences



Before my CAREER journey... Started at Clemson in 2015

Samsung gift + NSF EAGER: Usable privacy for IoT

US Army contract: Privacy for training systems

Facebook fellowship student: User-tailored privacy

Wanted to get back into (funded) recommender systems research

NSF CRII: Recommender Systems for Self-Actualization

### NSF CRII...

General idea: Recommender Systems mistakenly assume that your preferences are known

Problem: Many people often don't know what they really want

Solution: Subvert recommendation algorithms to help users explore their preferences

First submitted to the ACM RecSys "Past, Present, Future" track

Included a "beyond the CRII award" section that became my CAREER proposal

Focused on algorithmically generated preference visualizations and preference communities

Take a topic you're passionate about

I had advocated for user-centric research in this field for a decade

Present a bold idea that covers a gap in existing work

I selected a "High risk, high reward" idea

Make a meaningful theoretical contribution

NSF CRII and RecSys had accepted the theoretical foundation

# Meaningfully integrate your education plan with your research

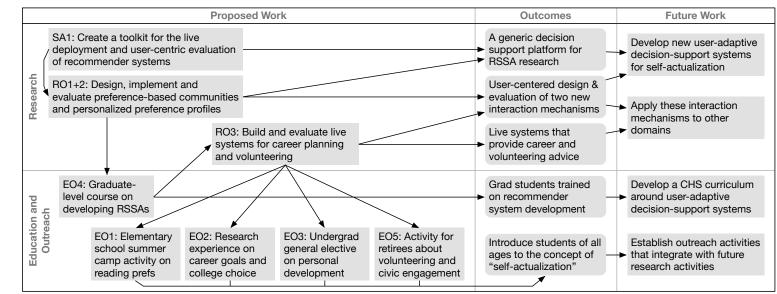


Figure 1: Overview of proposed research, education, and outreach objectives; expected outcomes; and future work.

#### Your education plan can go beyond the college classroom

My plan included K-12 summer camps, high school visit days, undergrad and graduate education, and working with retirees

### Make it internally consistent

#### Reviewers love it when a plan comes together!

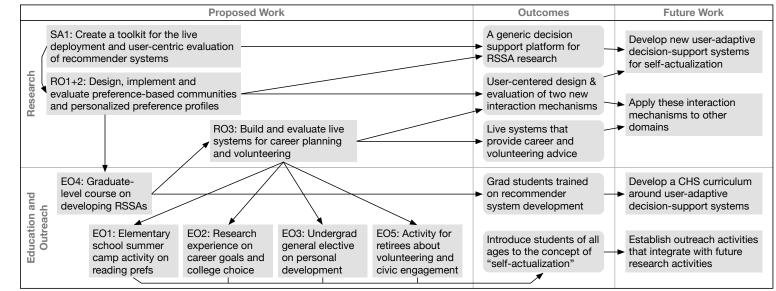


Figure 1: Overview of proposed research, education, and outreach objectives; expected outcomes; and future work.

#### Plan for 5 years, but write for 10

I included examples of future work beyond the CAREER award, showing how it would kickstart my research career

Verdict: Low Competitive (VG/G, G, P)

Main issues:

Not enough engagement with prior work in the broader field

Internal inconsistencies in the theoretical foundation

CRII award has not produced a lot of concrete results

Best reviewer: "This is a strong proposal. The Spice Girls quote was distracting and unnecessary." NSF CAREER: second try (2019) Talk to lots of different people about your proposal

I asked outsiders, senior scholars for comments on the proposal + reviews

Delve into the theory

I theoretically reconceptualized the proposal without changing the broader ideas / specific tasks

### Turn a weakness into a positive

I acknowledged the lacking CRII results and proposed a solution

NSF CAREER: second try (2019) In checking on my proposal, I noticed something weird...

Division: Office of Advanced Cyberinfrastructure (OAC)

Proposals get moved sometimes... maybe ask why?

Turns out our pre-awards office had submitted the proposal to the **wrong directorate**!

Verdict: Low Competitive again (G, G, G/F, VG, F)

Not terrible, given the circumstances

### NSF CAREER: third try (2020)

Triple-check whether your proposal is submitted correctly

Seriously...

If you're confident about it, don't change it

> In this round I mostly clarified reviewer misconceptions



### NSF CAREER: third try (2020)

Verdict: Highly Competitive! (E, VG/G, G)

It got awarded!



# Once you get the award...

Create a team of students

I aim to create an environment where students learn more from each other than from me

Find creative solutions for things that don't work out

As the pandemic continued, I made several changes to my research approach

### Don't ignore interesting research rabbit holes

I do cool spin-off projects aligned with the interests of my students and favorite colleagues

Once you get the award...

Submit supplementary award proposals

I didn't do REU/RET for this project (yet), but got a CLB

Share your proposal with others

I still do this, despite some negative experiences



### Thank you!

#### Proposal tips:

Take a topic you're passionate about Present a bold idea that covers a gap in existing work

Make a meaningful theoretical contribution

Meaningfully integrate your education plan with your research

Your education plan can go beyond the college classroom

Make it internally consistent

Plan for 5 years, but write for 10

Talk to lots of different people about your proposal

Delve into the theory

Turn a weakness into a positive

#### Post-award tips:

Create a team of students

Find creative solutions for things that don't work out

Don't ignore interesting research rabbit holes

Submit supplementary award proposals

Share your proposal with others

Feel free to email me at bartk@clemson.edu!