

# Careers in Particle Physics: Scientists in ⊘ Permanent Positions

Jahresversammlung 2022 der deutschen Teilchenphysiker\*innen, Bad Honnef, 18 Nov 2022

U. Husemann (KIT), L. Feld (RWTH)

## The Survey

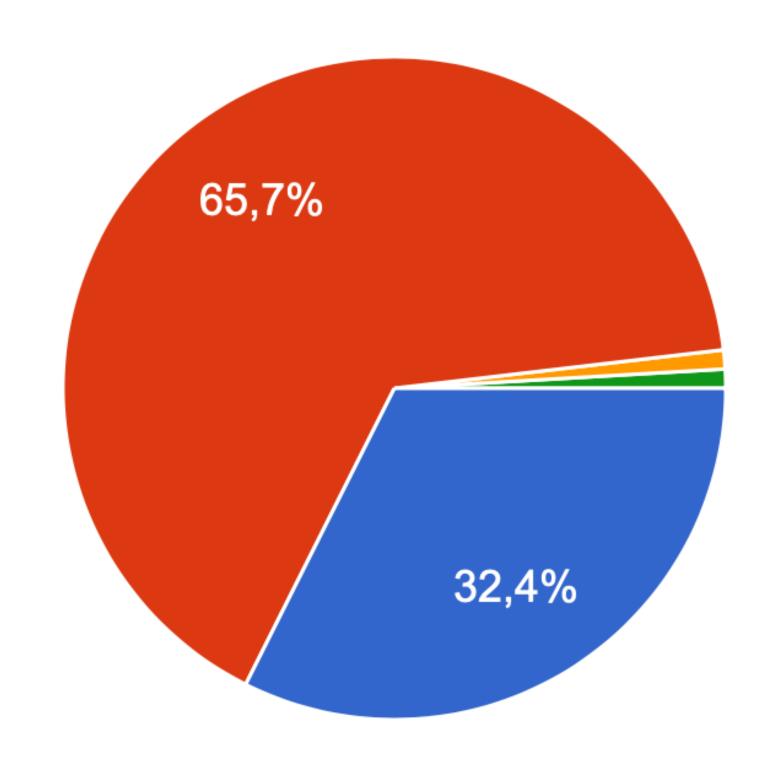
#### **Career Paths in Particle Physics**

- Goal: shedding light on career paths in particle physics, both at universities and laboratories
- Target group: scientists who have moved to permanent positions in particle physics in Germany since 2010
  - About 250 candidates contacted through regional contact persons
- Survey:
  - Open from September 17 to October 12, 2022
  - 127 answers, **108 from target group** → at least 10 positions per year
  - Thank you very much!
- Today: first glimpse at the survey data

### Identification with Gender

To which gender identity do you identify most?

108 Antworten

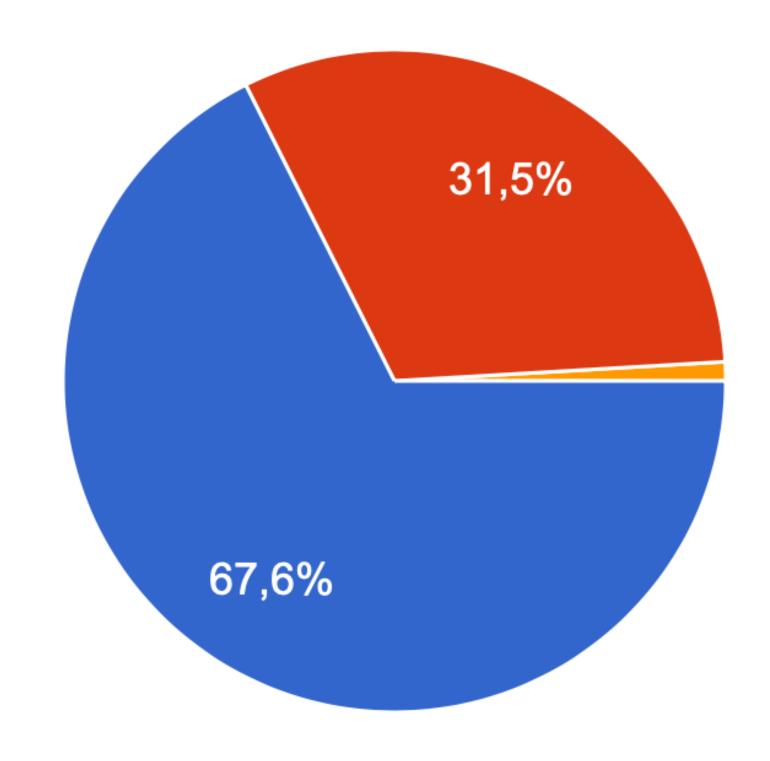




## PhD in Theory/Experiment

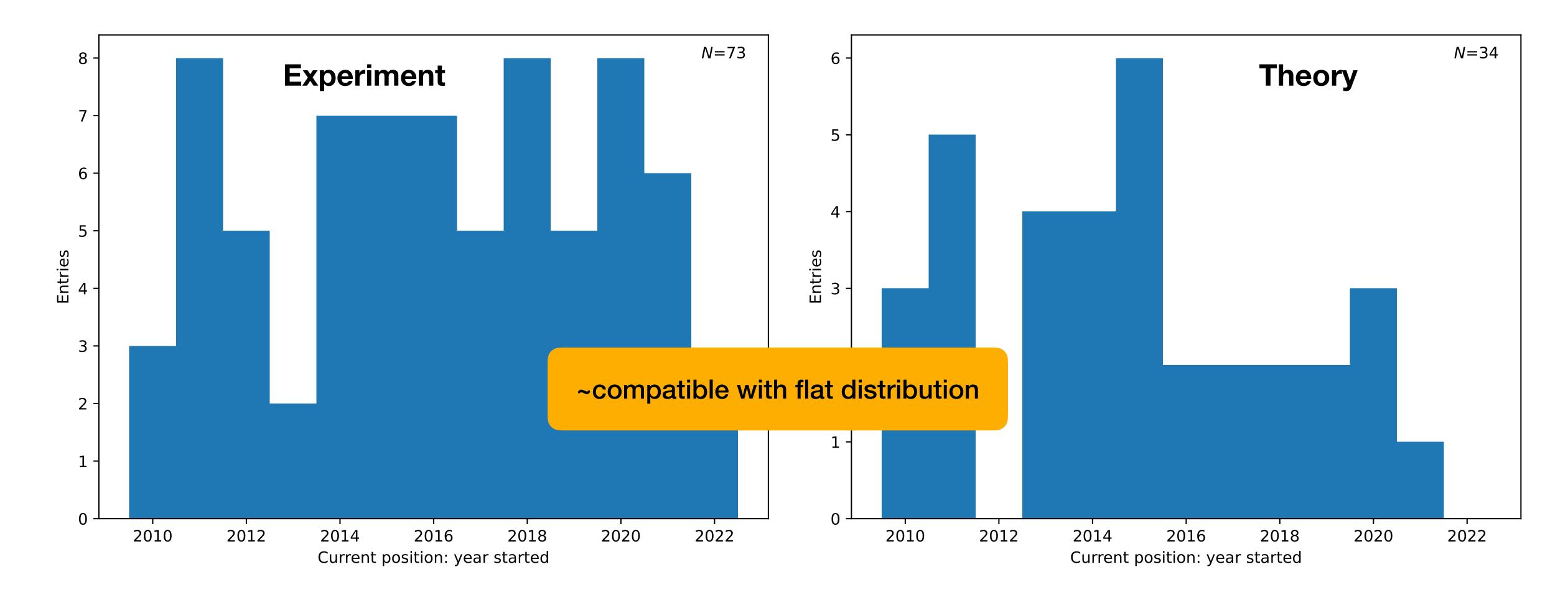
Did you work in experimental or theoretical physics during your doctorate?

108 Antworten

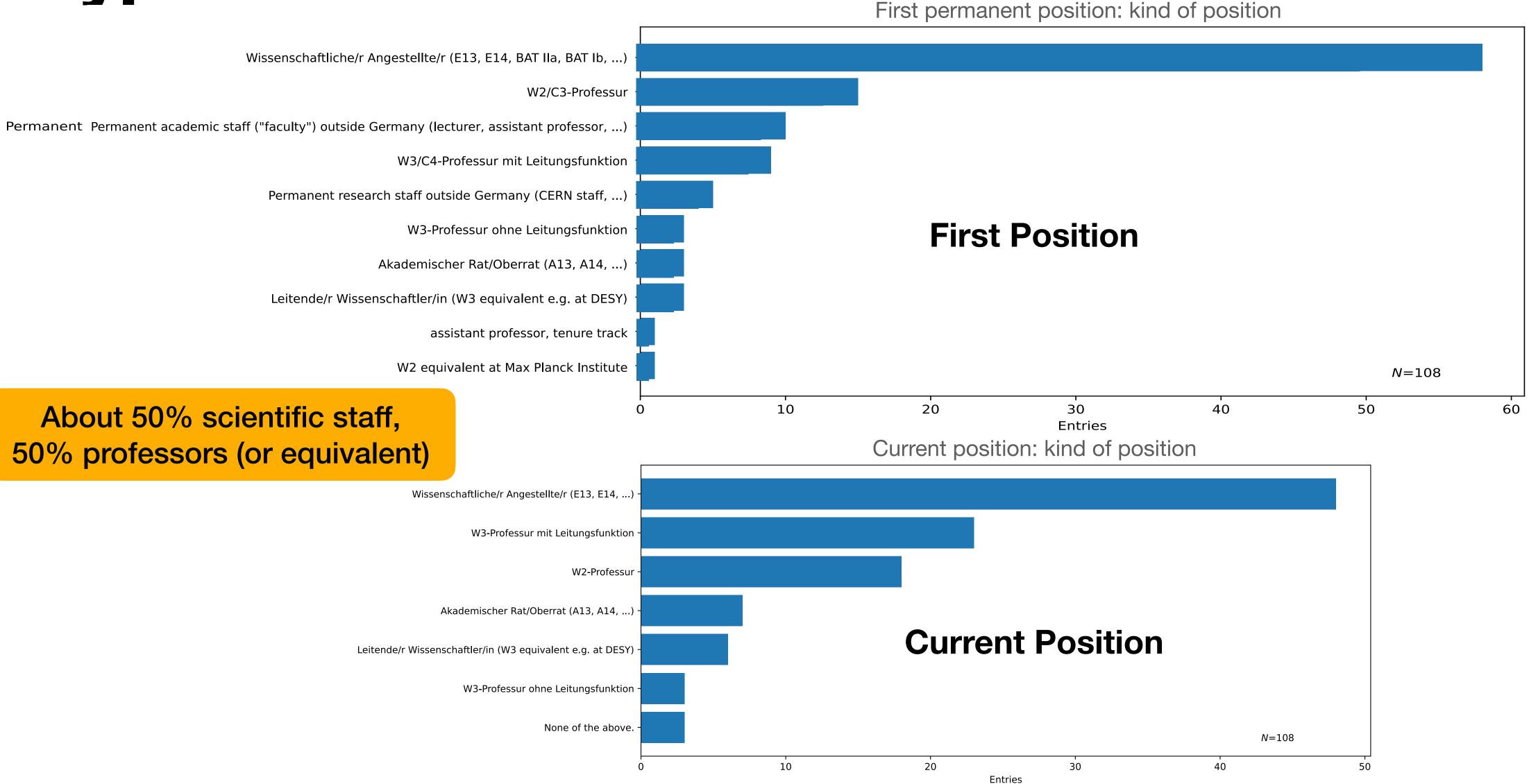


- Experimental physics
- Theoretical physics
- Other

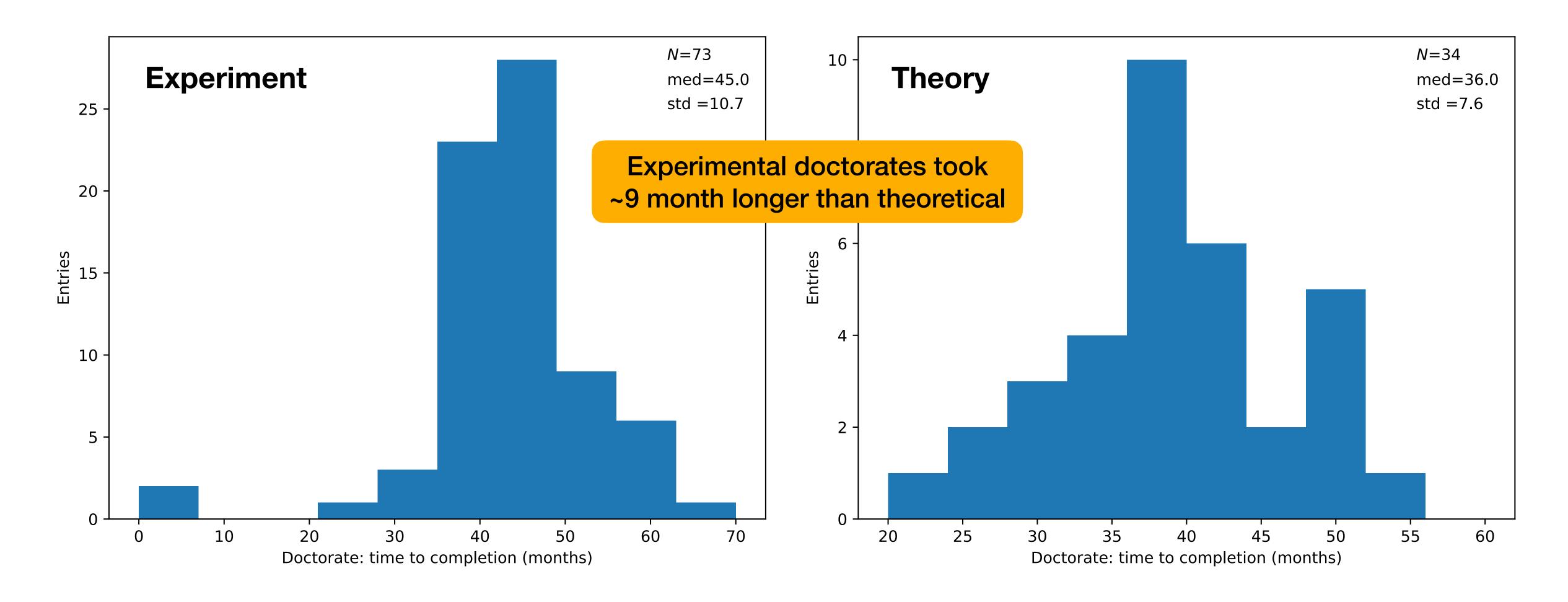
## Positions over Time Separately for experiment/theory



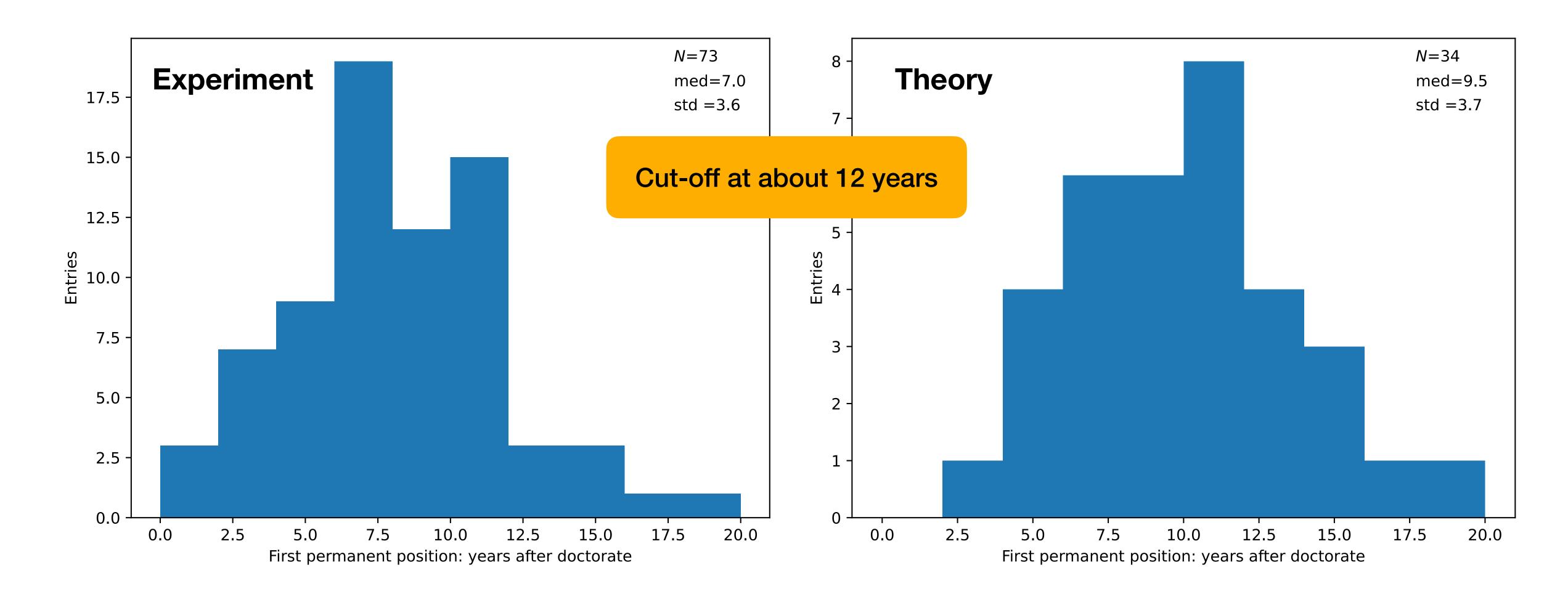
### Type of Positions



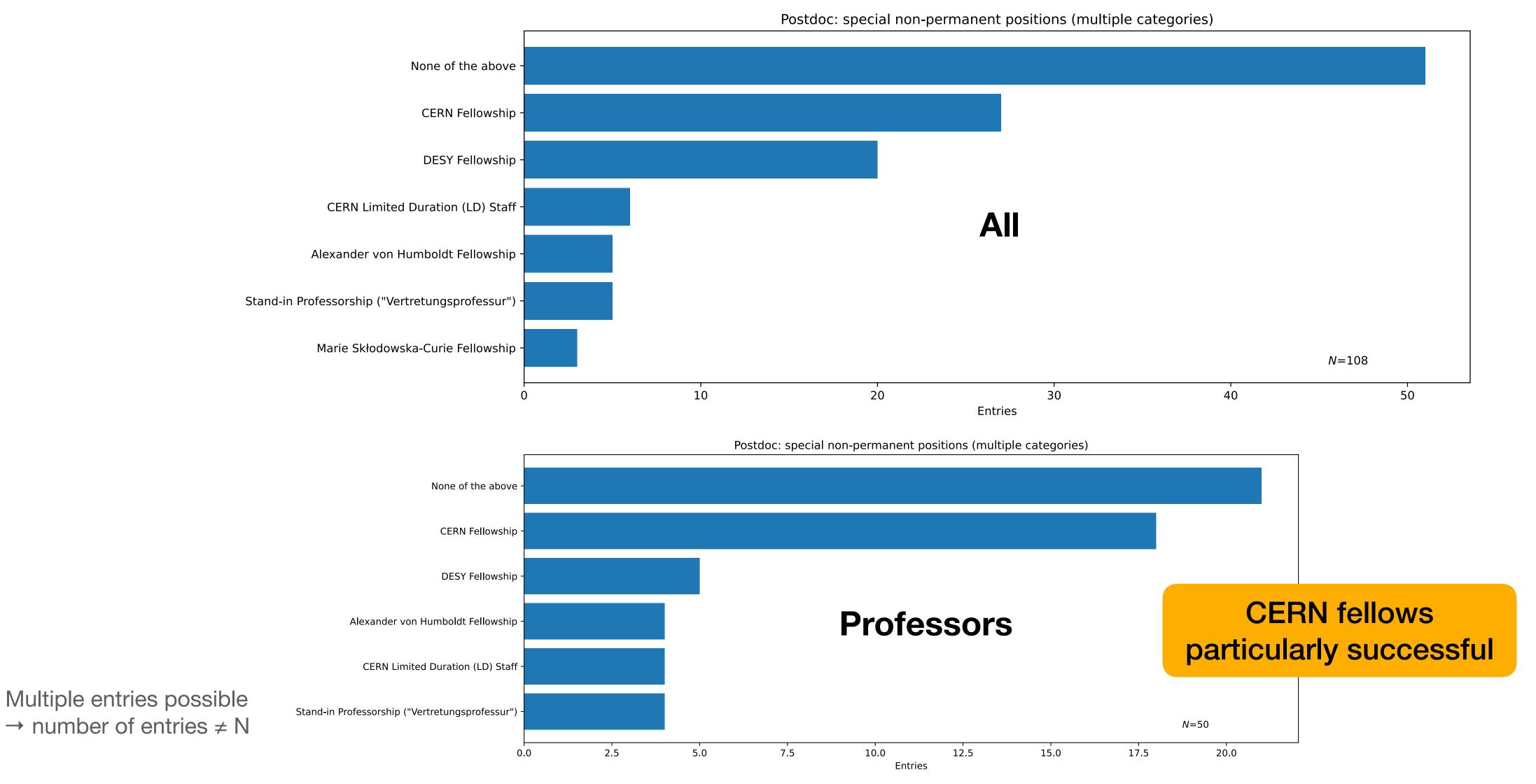
### **Duration of Doctorate**



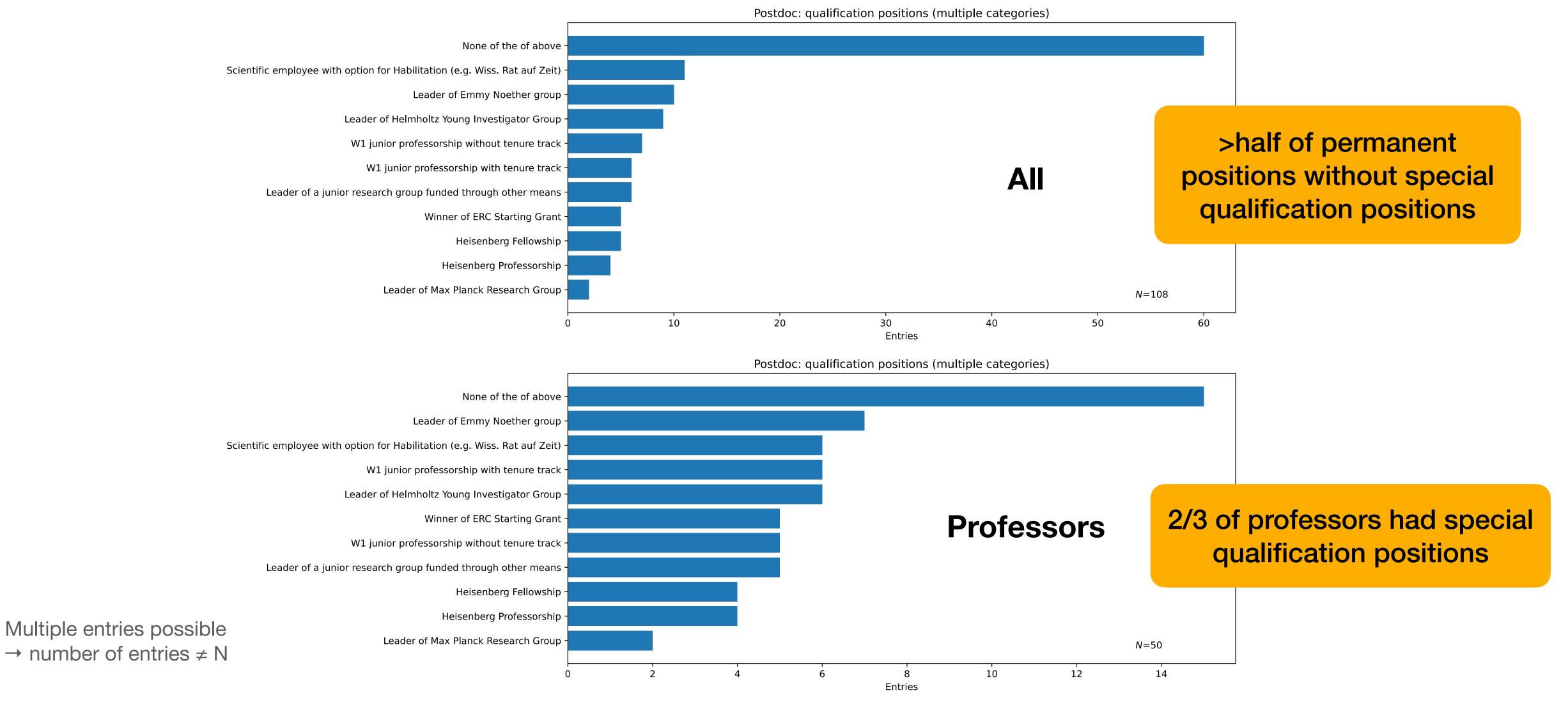
#### Duration from Doctorate to First Permanent Position



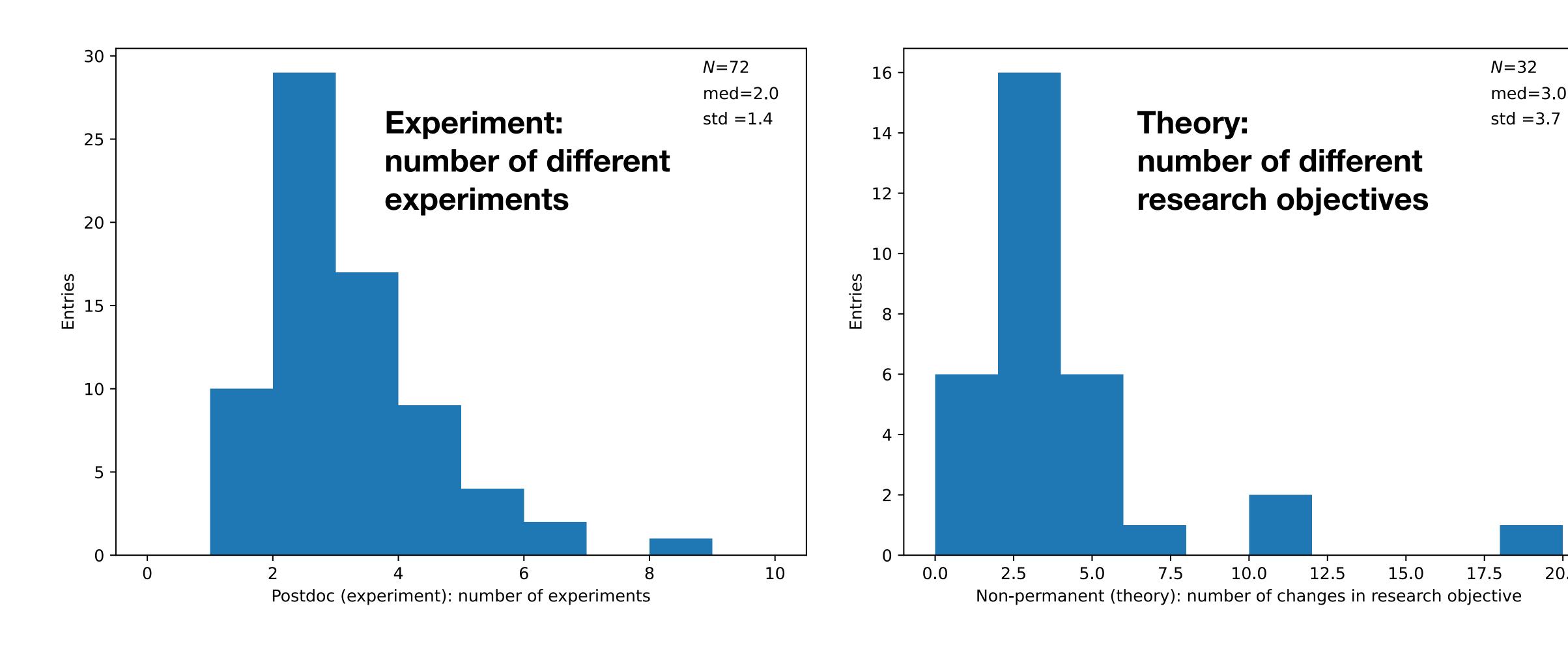
## Special Positions: Fellowships, ...



## Special Qualification Positions

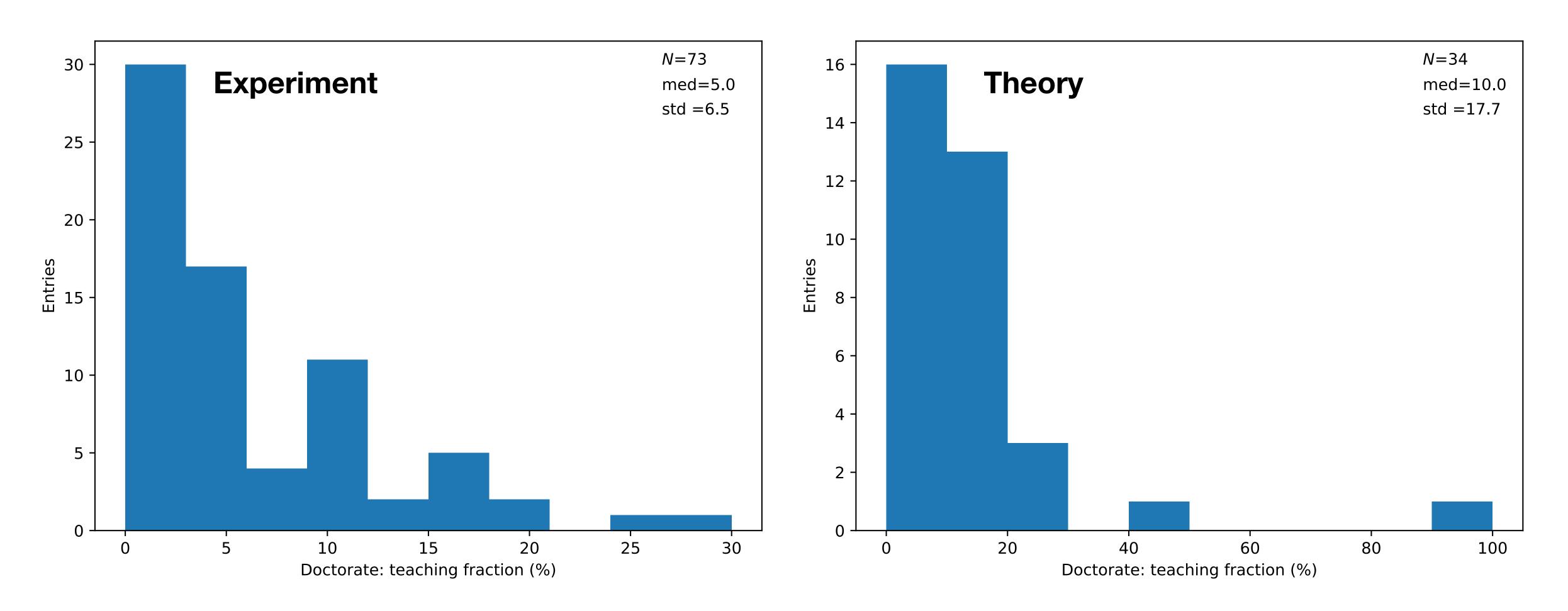


## Number of Different Settings



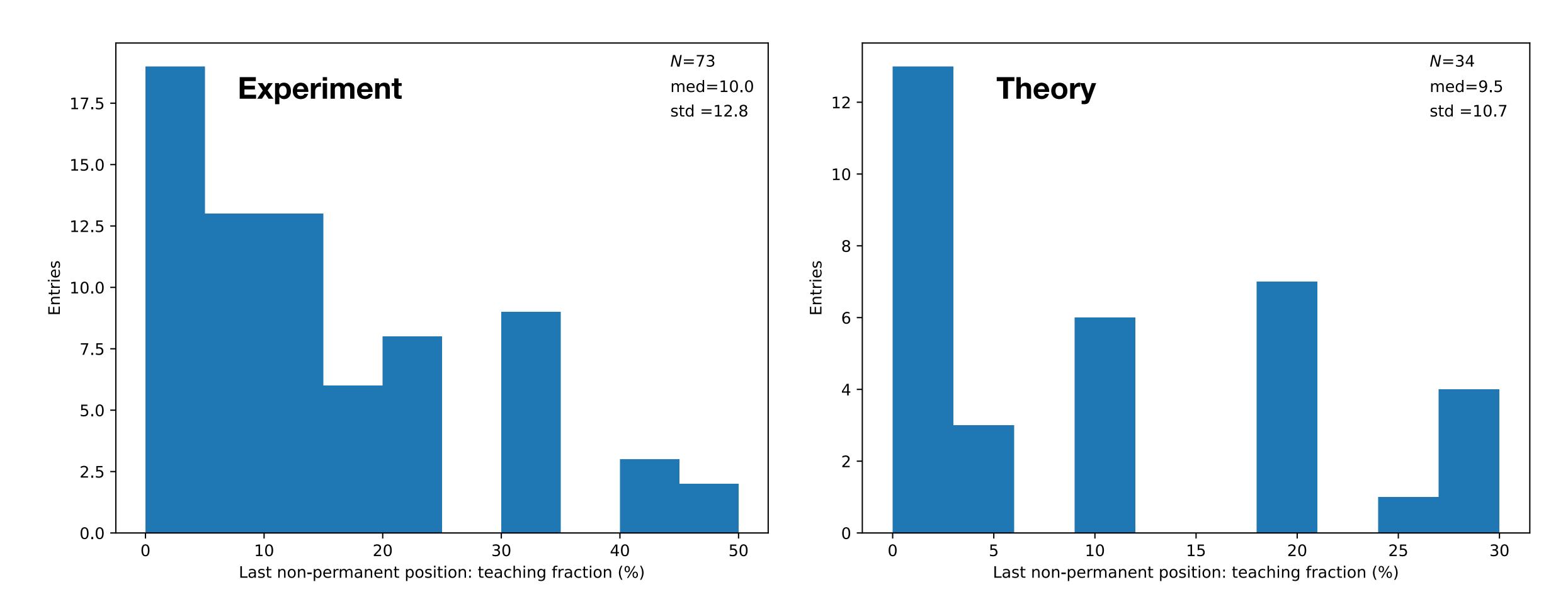
20.0

## **Doctorate: Fraction of Time Spent on Teaching**Only Classroom Teaching



## Postdoc: Fraction of Time Spent on Teaching

#### Classroom Teaching and Undergraduate Supervision



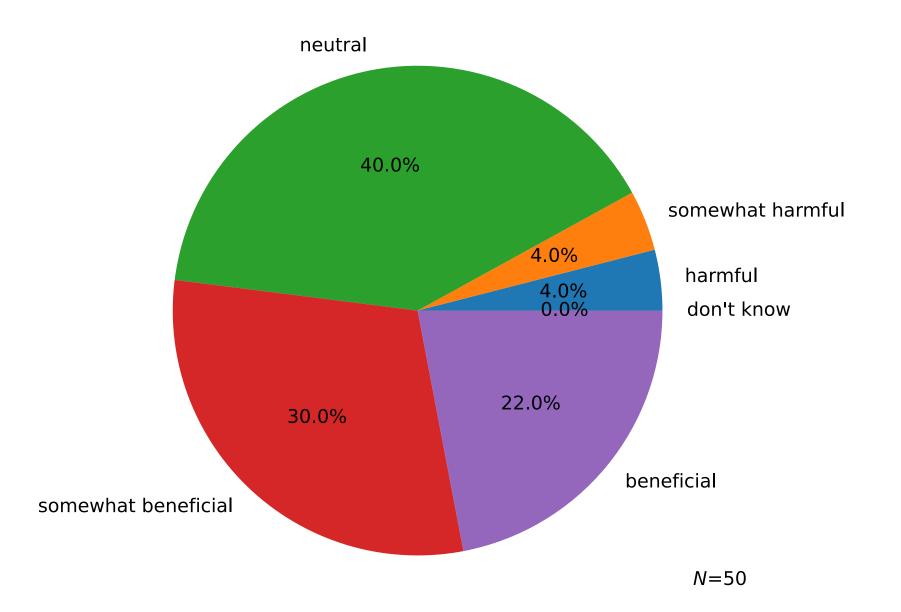
13

## Benefit of Teaching as PhD/Postdoc

#### ... for career in general

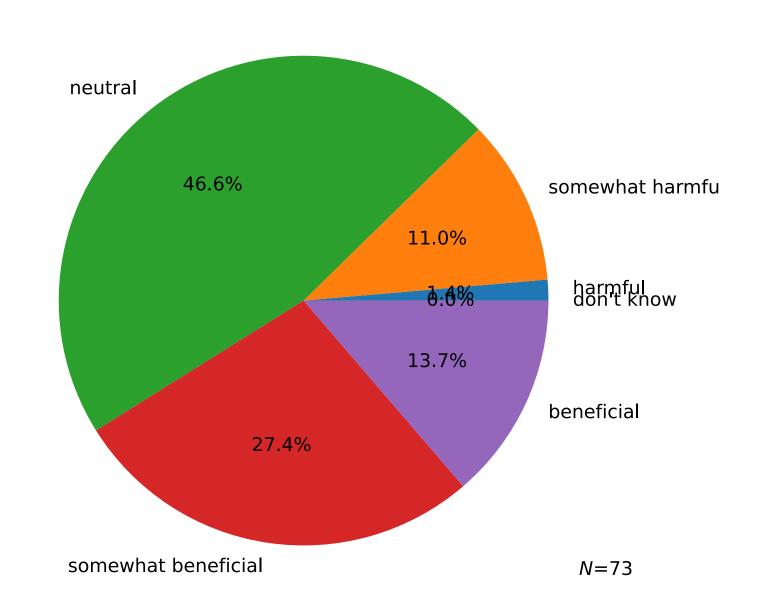
#### **Professors**

Last non-permanent position: teaching beneficial?



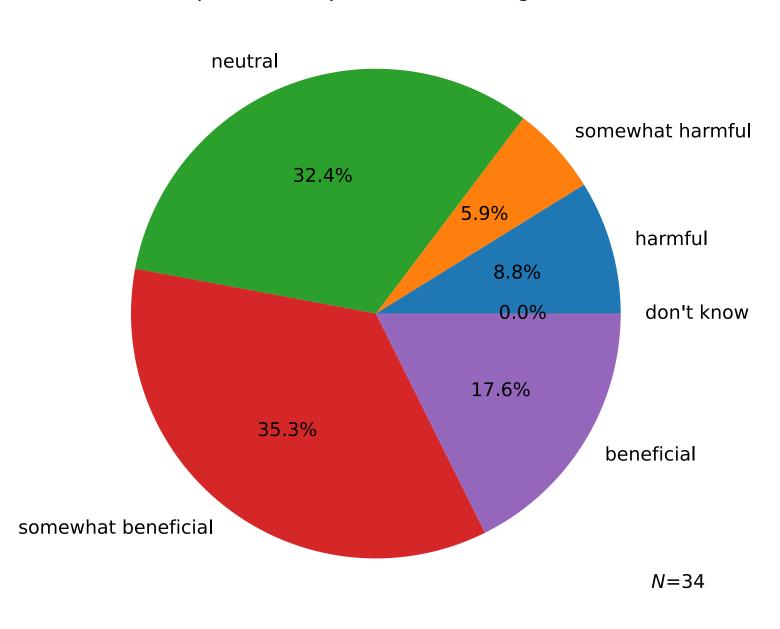
#### Experiment

Last non-permanent position: teaching beneficial?



#### Theory

Last non-permanent position: teaching beneficial?



>40% find teaching at least "somewhat beneficial" for their careers

## Subjective Importance of Teaching

... for first permanent position

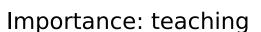
#### **Professors**

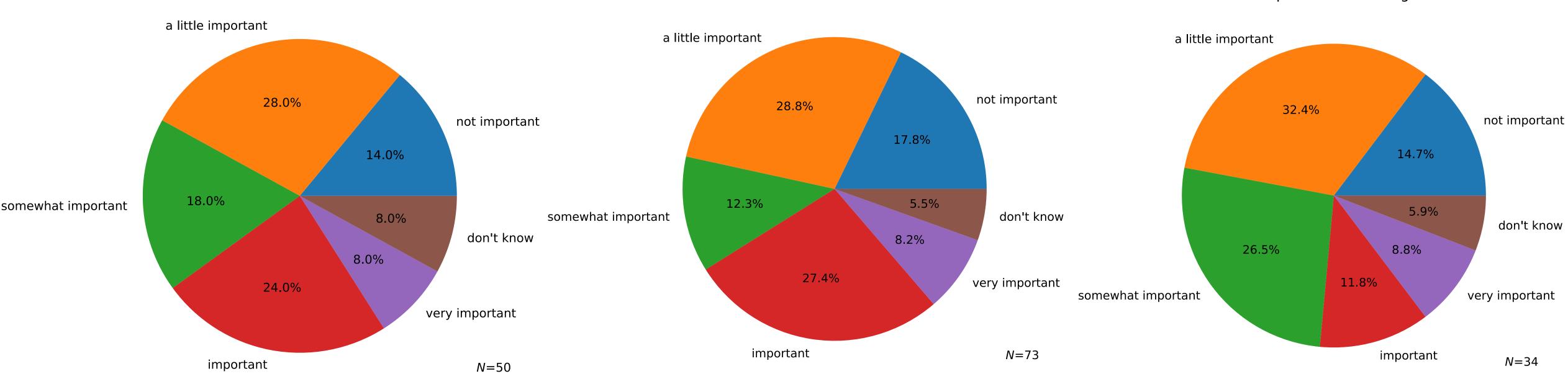
Importance: teaching

#### **Experiment**

#### Importance: teaching

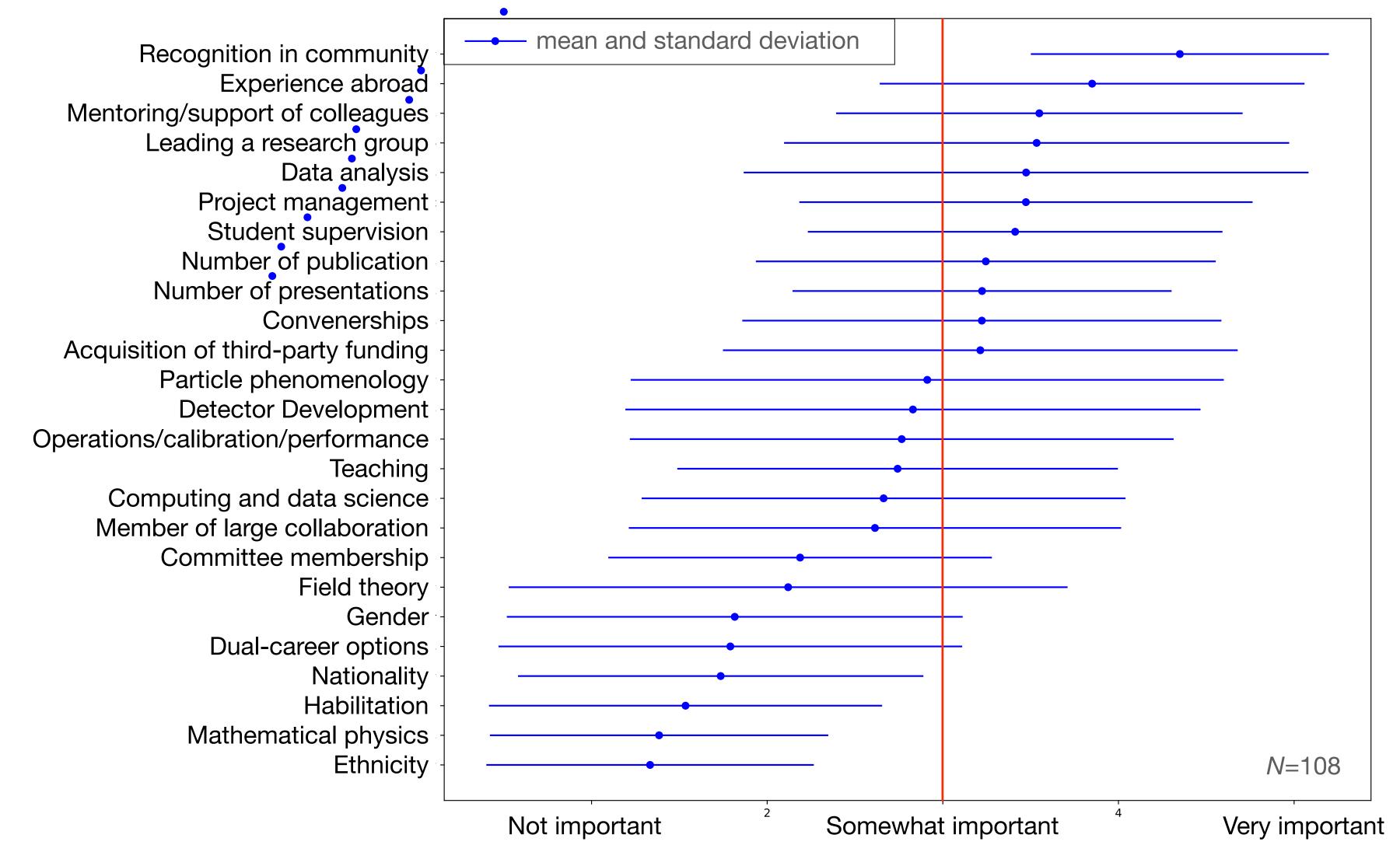
#### **Theory**





~50% find teaching at least "somewhat important" for their first permanent position

## Subjective Importance: Summary

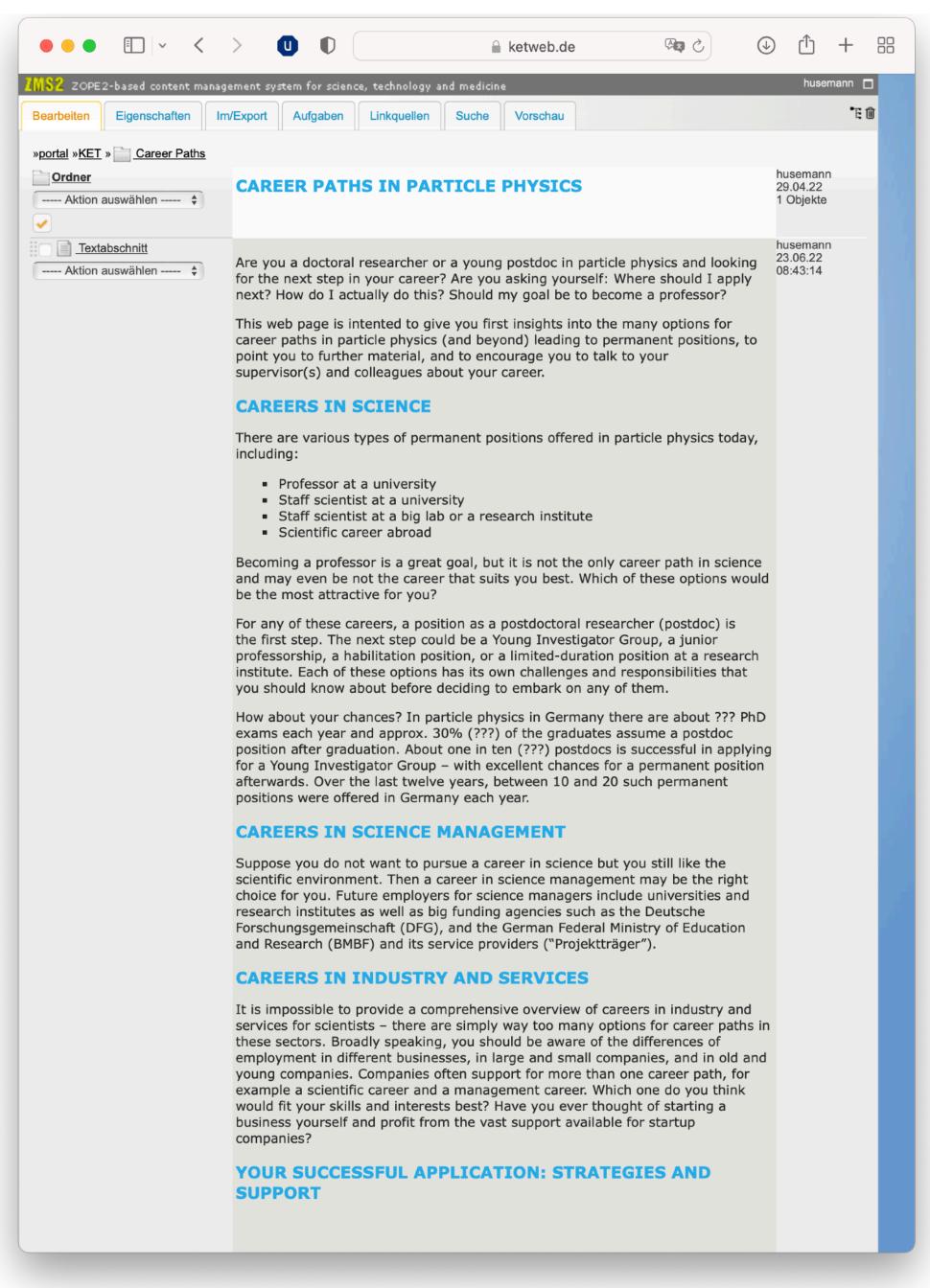


### Outlook

- Warning: this is a snapshot of the last decade → what has worked for careers in the past decade may not be working any more in the future
- There is more to be analyzed ideas welcome

## Outlook Plans for Web Site

- Concept for informing/educating earlycareer researchers about career paths:
  - Address target group directly/personally
  - Give concise overview of all options
  - Point readers to additional information (including survey on career path)
- Started to create subpage on <u>ketweb.de</u> (so far: hidden)



# Backup Slides

## Correlations Heatmap

