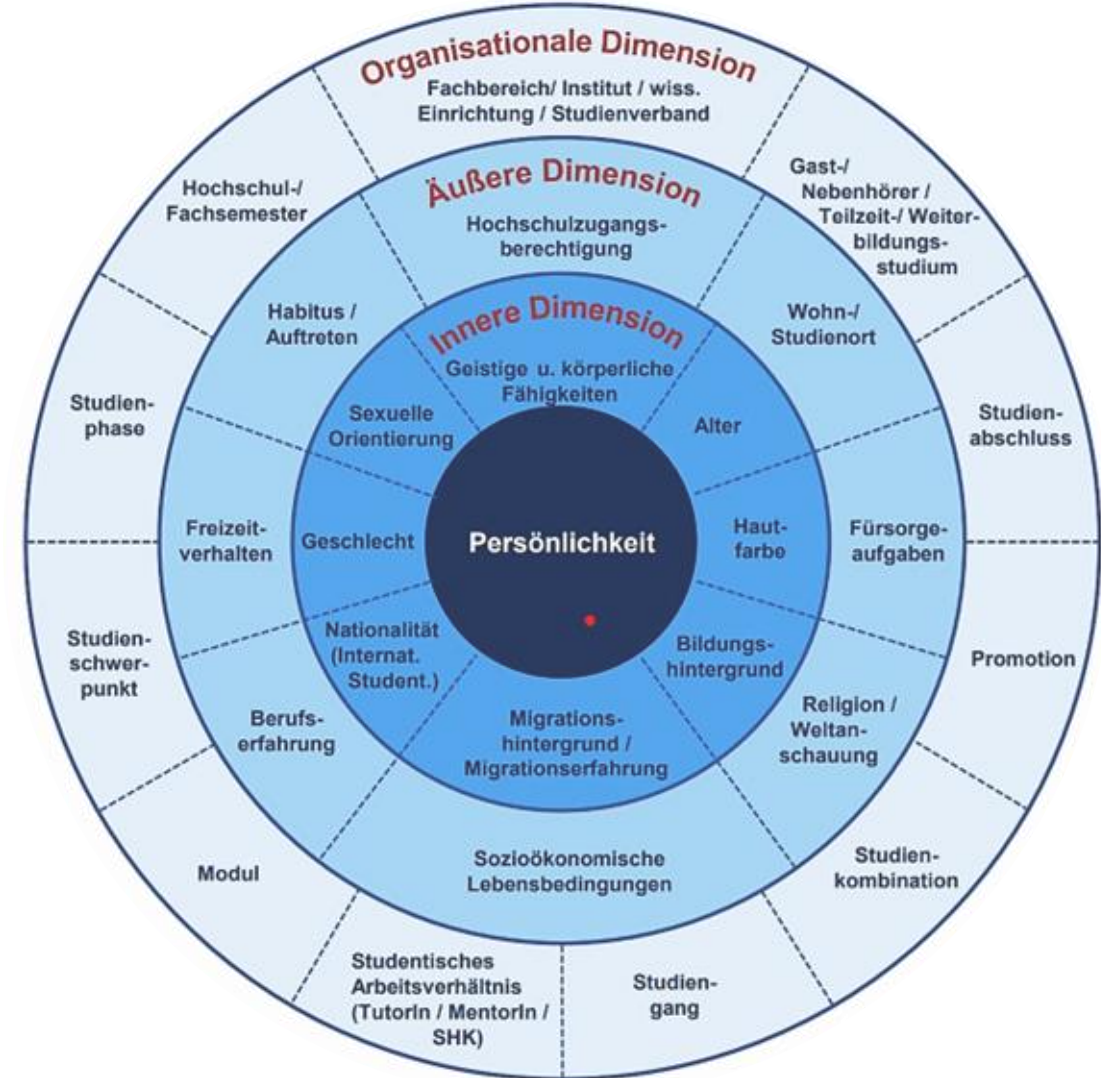
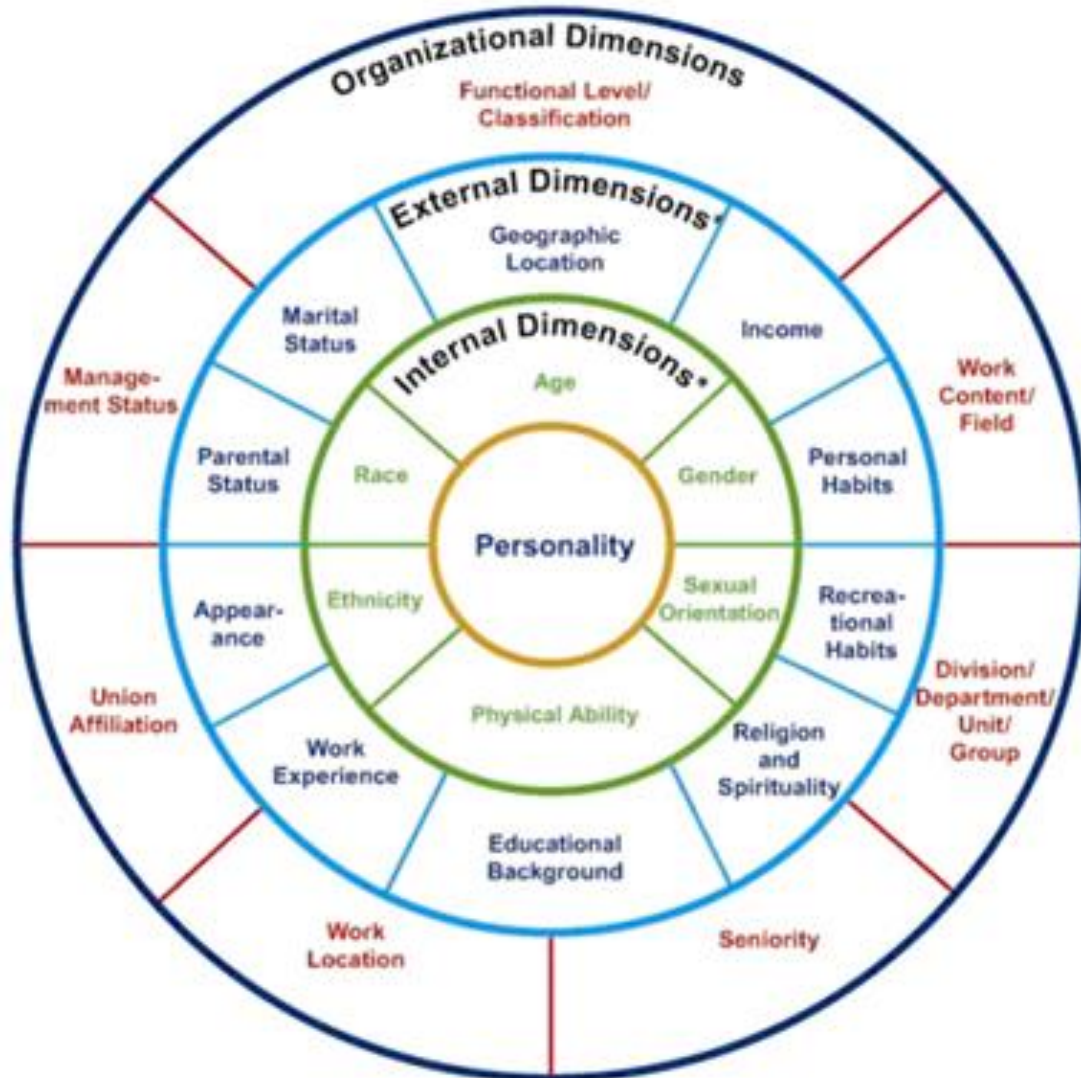




Diversity & Gender Gender in Educational Context Introduction

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Diversity – Heterogeneity – Individuality



Four Layers of Diversity (Quelle: Gardenswartz und Rowe 2008, S. 37)
 Grafik entnommen aus: <https://www.socialnet.de/lexikon/Diversitaet>

Diversitätsmerkmale im Kontext der Hochschule, Boomers/Nitschke (2012)
 in Anlehnung an Gardenswartz/Rowe (1994).

General Information

Course framework

- Independent scientific work (poster proposal)
- 2 ECTS = 50 hours of 60 minutes of work (documentation)
- Online

Meetings: Minimum 3 + on demand

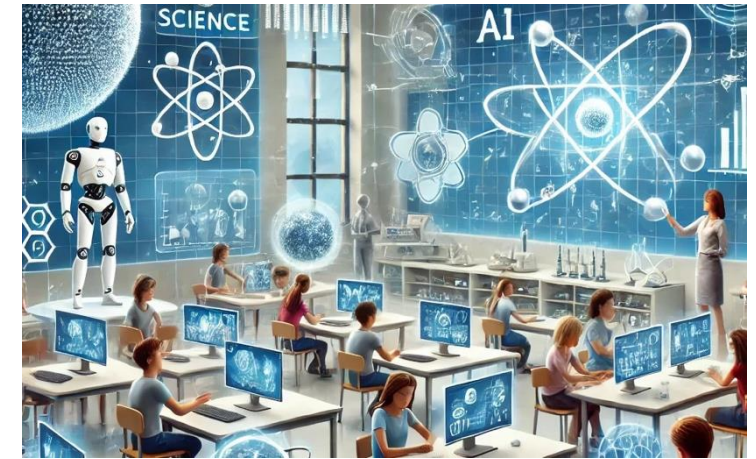
- | | |
|-----------------------------------|-----------------|
| • Introduction & Choice of Topics | October 15 + 22 |
| • Interim presentation | ??? |
| • Final presentation | ??? |
| • Meetings/Topics on Demand | ??? |

Individual & Gender Differences in the Brain



- **Each brain is different**
- Girls **develop** faster
- **Language** aptitude and empathy are female
- Math and **spatial** intelligence are male
- **Hormones** influence talents and performance
 - Higher estrogen – better verbal performance
 - Lower estrogen – better spatial orientation
 - Aptitude & performance vary in female hormonal cycle
 - Higher testosterone – better memory
 - Lower cortisol level during sleep – better long-term memory
- **Brain structure** is different – Females:
 - Thicker corpus callosum (connection brain hemispheres)
 - Language procession distributed in both hemispheres
 - Broca & Wernicke areas proportionally larger
 - Higher density of neurons in Wernicke-Area

AI & Diversity – Benefits & Challenges



- **Personalization**
- **Differentiation**
- **Language support**
- Relief for teachers
- Diverse materials
- **Bias** in the training data
- Unequal access
- **Data protection**
- Overdependence and **loss of competence**
- Competence of the teachers

Attention!: Gender & Other Bias

„Picture of a Scientist“

2023



2025



Ideogram

To do

Select Course Topics

- Diversity and gender aspect(s) in relation to own dissertation
- AI & Diversity – Benefits for diversity in education

Submissions in Moodle

1. Brainstorming & Title + Abstract (1/2 page) – End of October
2. Poster Proposal (2 pages)
3. Final presentation
4. Feedback & Peer Assessment
5. Documentation (table)



Which aspects of diversity and gender are you interested in?