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How and why to do a PhD in Heidelberg?

Dr. Helke Hillebrand

Director Graduate Academy
Heidelberg University

Heidelberg, July 2024



Who are we?



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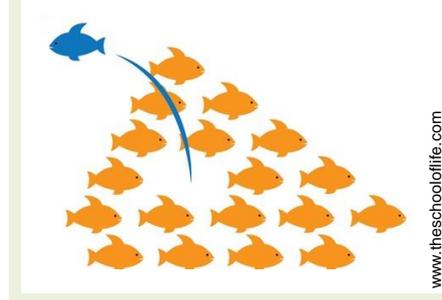
Graduate Academy is the central **point of contact** for early career researchers (ECR) and their mentors contributing to **excellent framework conditions** for ECR and supporting **career orientation** and **development** towards ambitious career paths **inside and outside of academia**

- seminars
- workshops
- service on demand
- lectures
- e-learning tools
- digital resources
- language support
- text production support
- individual advice
- visa support
- 1-o-1 meetings
- ombudsprogram
- cotutelles
- fellowships
- heiDOCS2.0
- events
- welcome pack
- brochure kiosk
- bulletin board
- newsletter
- instagram
- working space
- media room & training

ORIENTATION



INDIVIDUALISATION



NETWORKING



Who are we? (about 66%)



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Our mission



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metadisciplinary skills!

Serving excellent PhD candidates
carefully attended to
by 13 different faculties
across campus !



Support for early-career researchers

Unterstützung für junge Karrieren



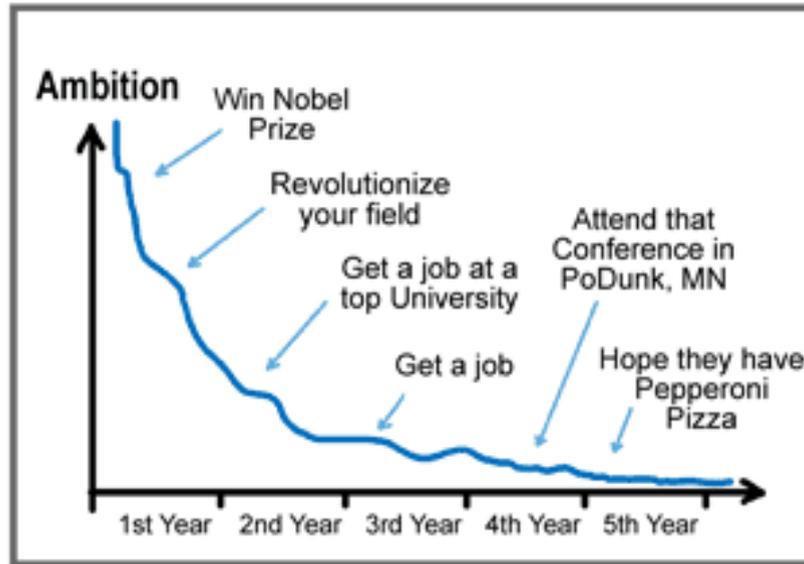
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Cornerstones of the PhD lifecycle...



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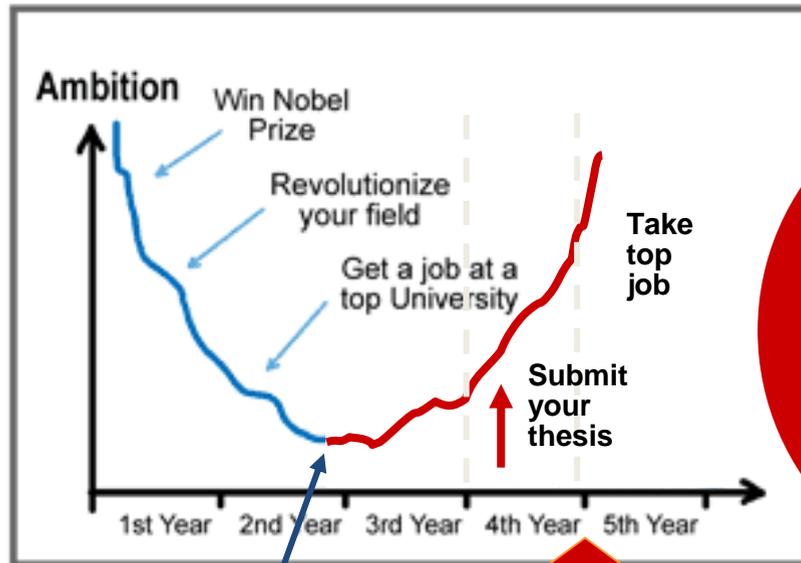


JORGE CHAM © 2008
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Cornerstones of the PhD lifecycle...



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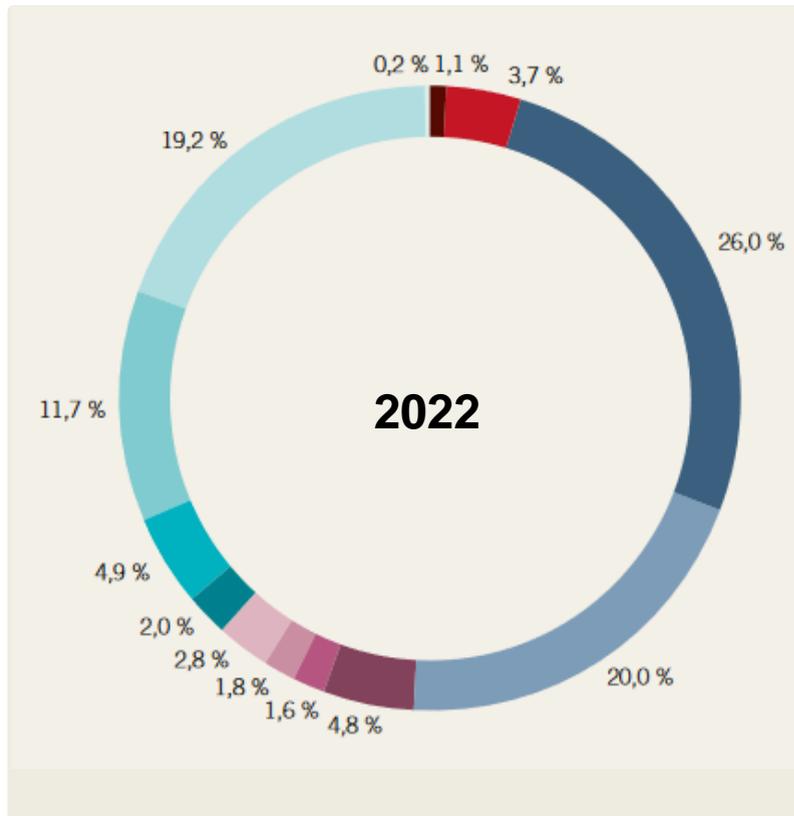
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Successfully fight your
2nd year depression

Our target audiences in numbers



- On average, about 1200 doctorates per year
 - Diversity matters: About 30% international PhD researchers
 - Gender balance: About 50% female and male graduates
- It takes on average 4.3 years to complete a Doctorate (w/o Dr.med.)



11
36
253
195
47
16
18
27
19
48
114
187
2
973

Fakultät	
●	Theologische Fakultät
●	Juristische Fakultät
●	Medizinische Fakultät Heidelberg
●	Medizinische Fakultät Mannheim
●	Philosophische Fakultät
●	Neuphilologische Fakultät
●	Fakultät für Wirtschafts- und Sozialwissenschaften
●	Fakultät für Verhaltens- und Empirische Kulturwissenschaften
●	Fakultät für Mathematik und Informatik
●	Fakultät für Chemie und Geowissenschaften
●	Fakultät für Physik und Astronomie
●	Fakultät für Biowissenschaften
●	Fakultät für Ingenieurwissenschaften
Summe	

Doctoral community Heidelberg University



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- About 9000 doctoral candidates steady state (incl. Dr. med.)
- Heidelberg doctoral community is the largest in Germany
- Four major Graduate Schools
(Life Sciences, Mathematics, Physics, Humanities & Social Sciences)
- More than 40 structured PhD Programs
(DFG, Excellence Cluster, EU-ITN, LGFG (MWK), participation in IMPRSs and Helmholtz International Graduate Schools, else)

Heidelberg University in international comparison

<http://www.uni-heidelberg.de/university/rankings/>

Heidelberg University ranks 1st in Germany - Shanghai Ranking 2023

University ranks 55th worldwide and 16th in Europe (August 15, 2023)

Heidelberg University ranks 3rd in Germany - QS World University Ranking 2024

University ranks 87th worldwide and 31st in Europe (June 27, 2023)

Ruperto Carola among the world's top 50 - THE Ranking 2024

University ranks 47th worldwide, 14th in Europe and 3rd in Germany (October 16, 2023)

Heidelberg University ranks 5th in Germany – THE Global University Employability Ranking 2024

University ranks 70th worldwide and 31st in Europe (November 23, 2023)

Graduate Academy in context



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Vice-Rector Quality Development & Sustainability

Advising &
Support

Academic
program &
Professional
orientation

Sponsorship
programs

Events

Council
for
Graduate
Studies

Information &
Networking

Service on
demand

Projects &
Partnerships

Infrastructure
KLF*

heiDOCS
Committee

* Käthe Leichter Forum, **KLF** (https://www.graduateacademy.uni-heidelberg.de/klfzentrum/index_en.html)

Who are YOU?



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Where are you from?



What are you passionate about?



What do you most enjoy doing?



What is your way to enjoy academia?



What is your career dream?



What do you expect from doing/gaining a PhD?





What's in for you?

1. Graduate Academy services
2. Managing a PhD



What do we offer today?

Core services Graduate Academy:

Advising & Support

Advising & support
(Beratung)

Sponsorship programs

Sponsorship for doctoral candidates
(Förderung)

Academic program & Professional orientation

Academic program & Professional orientation
(Akad. Programm & Karriereorientierung)

Events

Events
(Veranstaltungen)

Information & Networking

Information & Networking
(Infomaterialien & Vernetzung)

Service on demand

Projects & Partnerships

Infrastructure KLF*

Supporting the advancement of excellent PhD framework conditions
Unterstützungsangebote für die Verbesserung der Rahmenbedingungen der Promotion



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Graduate Academy offerings (I)



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- Consultations    
- Welcome events & welcome packs
- Seminar and workshop program
(ca. 60 courses p.a. in D & E)
- Primers for Predocs
- Digital (e-learning) resources
- Language and text production support
- Guided writing groups
- Media room
- Events calendar

Themes
Personal skills / Self management
Communication skills
Digital future – technologies - skills
Open Science
Transfer & Entrepreneurship
Research Ethics
University teaching
Enabling tools



SEMINARPROGRAMM SOMMER 2019

GRADUIERTENAKADEMIE | UNIVERSITÄT HEIDELBERG

PRIMERS FOR PREDOCS
STRATEGIEN FÜR EINE ERFOLGREICHE PROMOTION
WINTER 2019/2020

KONTAKT INFORMATION

ANMELDUNG ZU DEN VORTRÄGEN
REGISTRATION FOR OUR LECTURES

POSTFACHLEISTUNG | POSTAL ADDRESS

VERANSTALTUNGSORT | VENUE

GRADUATE ACADEMY

- Home
- News
- Graduate Academy
- Doctoral Studies in Heidelberg
- Advising and Support
- Funding
- Career Development**
- International doctoral training
- Supervision
- Download Center

SEMINAR-
PROGRAMM
E-LEARNING

Contact | Deutsch

University > Institutions > Graduate Academy > Career Development >

Digital resources for self-study



SELF-MANAGEMENT

Intercultural Awareness
Imposter Syndrome
Procrastination
Mental Health Support



TRANSFER

Entrepreneurship online resources and courses
eDOCation – Initiative for young researchers



COMMUNICATION

Online Open Source Journal Club Initiative
Scientific Writing and Publishing (E-Learning: Nature)
Advancing Your Scientific Presentations (E-Learning: Nature)
Narrative Tools for Researchers (E-Learning: Nature)
Focus on Peer Review (E-Learning: Nature Masterclasses)



RESEARCH ETHICS

Research Integrity: E-Learning Epigeum Online Module
Reproducibility for Everyone: Workshops and resources



DIGITAL SKILLS

Digital Future / Technologies / Digital Skills online resources:
Programming skills
Digital Humanities
Machine Learning
Web Design



UNIVERSITY TEACHING

University Teaching online resources



OPEN SCIENCE

Online Open Science information and training resources
Online Open Source Journal Club Initiative: Reproducibility for Everyone: Workshops and resources



TOOLS

Online Project Management Training-Resources
Statistics
Career Development
Interpreting Scientific Results (E-Learning: Nature Masterclasses)
Persuasive Grant Writing (E-Learning: Nature Masterclasses)
Data Analysis: Planning and Preparing (E-Learning: Nature Masterclasses)
Data Analysis: Conducting and Troubleshooting (E-Learning: Nature Masterclasses)
Networking for Researchers (E-Learning: Nature Masterclasses)
Effective Collaboration in Research (E-Learning: Nature Masterclasses)

Free access to e-learning resources



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epigeum Research

Research Integrity UK version

Research Integrity has been comprehensively rewritten and restructured to deliver the most up-to-date training on the principles, practices, and responsibilities that apply to every researcher throughout the research lifecycle – reflecting the revised Concordat to Support Research Integrity.

www.epigeum.com

epigeum Research

Advancing your Research Career: Strategies for Research Leadership

Support researcher career development at your institution with flexible and interactive training

Epigeum, part of Oxford University Press, creates innovative online training programmes for universities and colleges around the world. Our new course, Advancing your Research Career: Strategies for Research Leadership, supports early and mid-career researchers in taking a strategic and reflective approach to advancing their research career.

www.epigeum.com

via Moodle

Coming soon

epigeum About Epigeum

Statistical Research Methods

In Development To be published: May 2024 Approximately 5 hours of Core activities

Strengthen your core skills & extend your understanding in statistics to deliver research excellence at all levels

via uni-hd e-mail

nature masterclasses

Professional development training for researchers – via online courses and workshops

Request a quote

Free access for researchers from low income countries

We've partnered with Research4Life to offer free access to researchers from low income countries.

https://www.graduateacademy.uni-heidelberg.de/karriere/digitale_weiterbildung/e-learning_en.html



Graduate Academy offerings (II)



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- Cotutelles: Negotiating contracts for dual affiliations incl. supervision with international partners 📄
- Brochure Kiosk – see <http://www.graduateacademy.uni-heidelberg.de/downloads/> (Graduate Academy downloads)
- Newsletter (please subscribe on our homepage)
- ★ Instagram www.instagram.com/ga_uniheidelberg
- Bulletin board (seeking partners for research, scientific or language co-operations; https://www.graduateacademy.uni-heidelberg.de/aktuelles/index_en.html#board)
- Jour fixe Doktorandenkonvent
- Coordinating the Ombudsprogram for doctoral candidates

NEW!



Sponsorship for doctoral candidates



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- Fellowships for doctoral candidates (Landesgraduierertenförderung; LGF)
 - Individual 3-year fellowships
 - Completion fellowships (3-6 month)
- Short term fellowships (heiDOCS 2.0; else)
 - Travel grants (courses, conferences, collaborations, field trips)
 - Bridging grants
 - Publication & project grants (contribution)
 - Doctoral initiatives
 - https://www.graduateacademy.uni-heidelberg.de/foerderung/heidocs_main_en.html
- Support towards identification of suitable (external) fellowships for (international) doctoral candidates
- Support towards establishing a meaningful application/
exposé writing





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How to manage a PhD?



What is a PhD?



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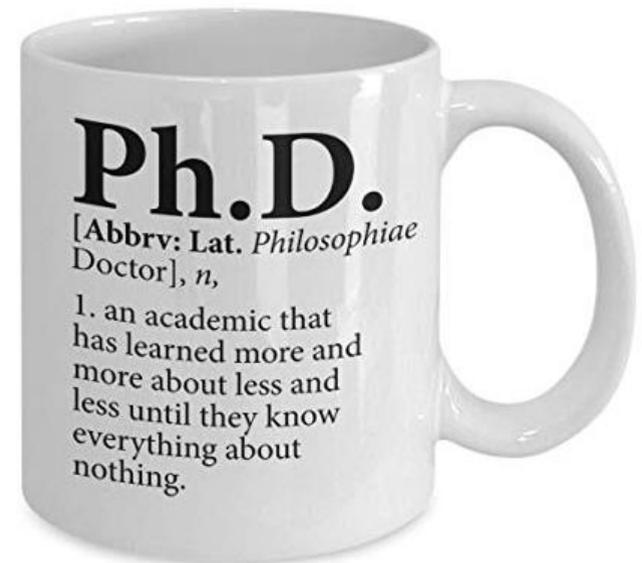
Philosophy Doctor

*Doctor of philosophy
doctor philosophiae*

PhD / Ph.D. / Dphil / Doctorate
BR AM Latin Germanism

Doctor of philosophy - Definition

- **Oxford Dictionary:** the highest college or university degree, or someone who has this.
- **Wikipedia:** is the highest university degree that is conferred after a course of study by universities in most English-speaking countries.
- **Amazon.de:**

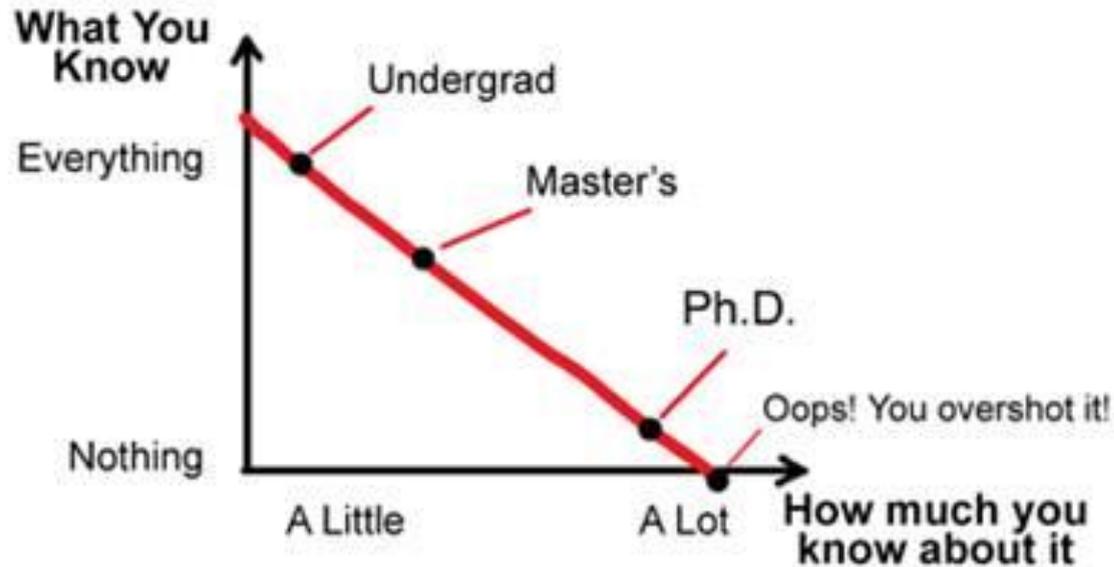


How much of an academic career do I want?



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What You Know vs How much you know about it



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What does a PhD entail?



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The degree is conferred for producing **independent, original research** that expands the limits of current knowledge (can be published in a peer-reviewed journal).

- Identifying a PhD-worthy **research question**
- Pursuing original independent **research**
- Writing a **dissertation** (thesis) about the new findings
- **Submitting** the dissertation
- **Defending** the thesis (against experts in the field)
- **Publishing** the findings
- Being **promoted** to PhD (award of the title)
- Using the **title** Doctor (as awarded!!!)
 - In non-English-speaking countries, variants such as "Dr. phil.", "Dr. rer. nat.", "Dr. med." are in use.
 - In English spoken countries often abbreviated "Dr" or "Dr." or with post-nominal letters such as "Ph.D.", "PhD", or "DPhil" (depending on the awarding institution).
 - Never use both, the title and post-nominals, at the same time!

The proper etiquette associated with this usage of the doctoral degree may also be subject to the professional ethics of the own scholarly field, culture, or society

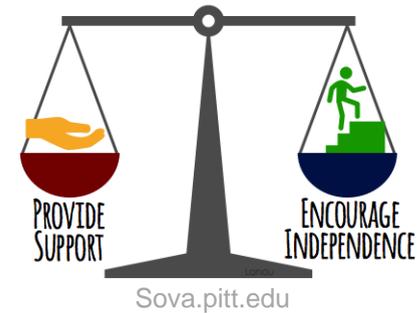
What is special about doing a PhD?



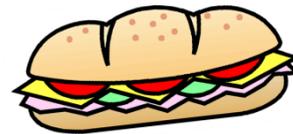
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- You are not a student any more
- At Heidelberg University: PhD research is the first phase of a professional research experience and NOT(!) a third cycle of studies

- Independence (various degrees of)



- Life in a sandwich position



- Preparing for growth and leadership



What is expected from me when entering into PhD research?



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Exhausted or ready for taking off?



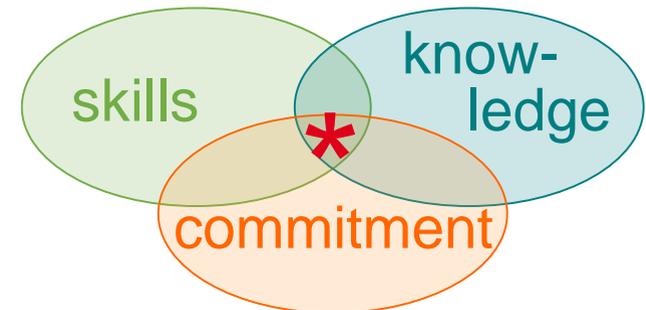
What is expected from me when doing PhD research?



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- Passion to perform ✓
- Taking pleasure in (interdisciplinary) thinking, in writing and in contributing
- A profile matching a supervisor's / mentor's expectations regarding the requirements of a specific project
- Enthusiasm, curiosity, dedication, creativity, diligence ...

- Becoming a valuable team member!



* where excellence originates ...

Why to do a PhD?

Good reasons (not) to do a PhD...

- Excited about learning and solving problems
- In love with thinking, writing & freedom of thought
- Enthusiastic about doing research
- Genuinely interested in the subject area
- Want to set the stage for life-long learning
- Want the title
- Deemed important for my career aspirations
- Want to become a professor



- Interested in the training programme
- Admire my supervisor
- Curious about the university doings



- I was always a successful & diligent student
- No better job in sight



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How to prepare for a PhD? (I)



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- Talk and listen to your peers
 - <https://www.nature.com/articles/d41586-018-07332-x>
Article by recent PhD graduate Lucy A. Taylor sharing the advice she and her colleagues wish they had received (06/11/2018):
Twenty things I wish I'd known when I started my PhD.
- Test your abilities (validated tests only!)
 - <https://www.academics.de/angebote/promotion-test-soll-ich-promovieren> *Academics* in collaboration with Heidelberg University (Institute for Psychology) developed a test for assessing personality traits, skills and qualifications relevant for a successful PhD (*see also link on GA-web*).
 - <https://myidp.sciencecareers.org/> A free, web-based career-planning tool that was created to help PhD candidates and postdocs in the sciences define and pursue their career goals.
 - <https://www.bachelorprint.de/promotion>
Checklists by Schneider & Molitor (on-line or book) - basis for the 2004 nation-wide THESIS-Study)
- Talk to your previous academic advisor(s) & mentor(s)



How to prepare for a PhD? (II)



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- What is the subject area/research question you are interested in?
- Identify your “doctorfather” or “doctormother”
- Agree on a PhD-worthy research topic
- Set-up your personal funding plan
- Get a copy of your faculty’s “Promotionsordnung” – become acquainted with the specific rules and regulations
- Sign a “supervision agreement”
- Register with heiDOCS – and create your personal copy of the on-line PhD file
- Apply for admission as a PhD candidate with your faculty
- Register with Heidelberg University as a PhD-candidate (Immatriculation for PhD candidates)
- Focus on your research and your skills portfolio!



How to finance a PhD?



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- Your PhD is financed by integration into your (university) supervisor's team:
 - Departmental position, (most likely) integrated in research and teaching at your department
 - Third party funding available to your supervisor
 - You pursue an "external" PhD
- You are pursuing a job outside of your PhD project
 - You hold a contract somewhere within the university (e.g. "Geprüfte Wissenschaftliche Hilfskraft")
 - You have a job elsewhere
- You hold a fellowship/ you are preparing to apply/ applying for a fellowship
- You are naturally born rich 😊

How to structure a PhD?



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Individual PhD

Structured PhD

Typical characteristics

- Single supervisor
- Thesis subject solely agreed upon with supervisor; may or may not be embedded in broader context
- No obligatory course work
- No formal definition for time-to-submission

co-tutelles, research abroad;
conferences &
summer schools;
meta-disciplinary skills training &
Graduate Academy

Typical characteristics

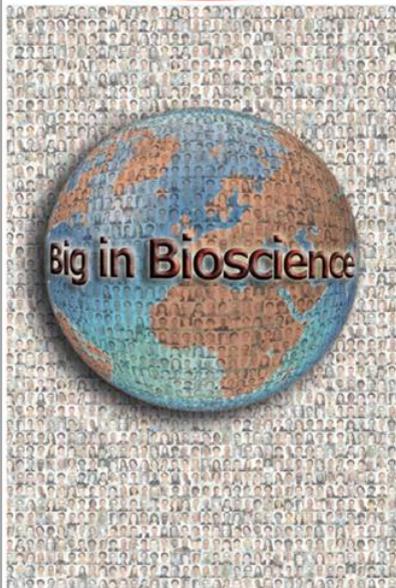
- Multiple supervisors/mentors (thesis advisory committee (TAC))
- Research topic is embedded in a doctoral program [Promotionskolleg (5-10), Graduiertenkolleg (*up to 25*), Graduiertenschule (≥ 100)]
- Requires formal application/admission
- Overarching funding/funding rules
- Programs define (disciplinary) training curricula
- Programs are set for 3-4 years of PhD research until submission
- Regular performance reviews

Heidelberg University's big 4



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Biosciences



Math/Comp



Physics



Humanities & Social Sciences



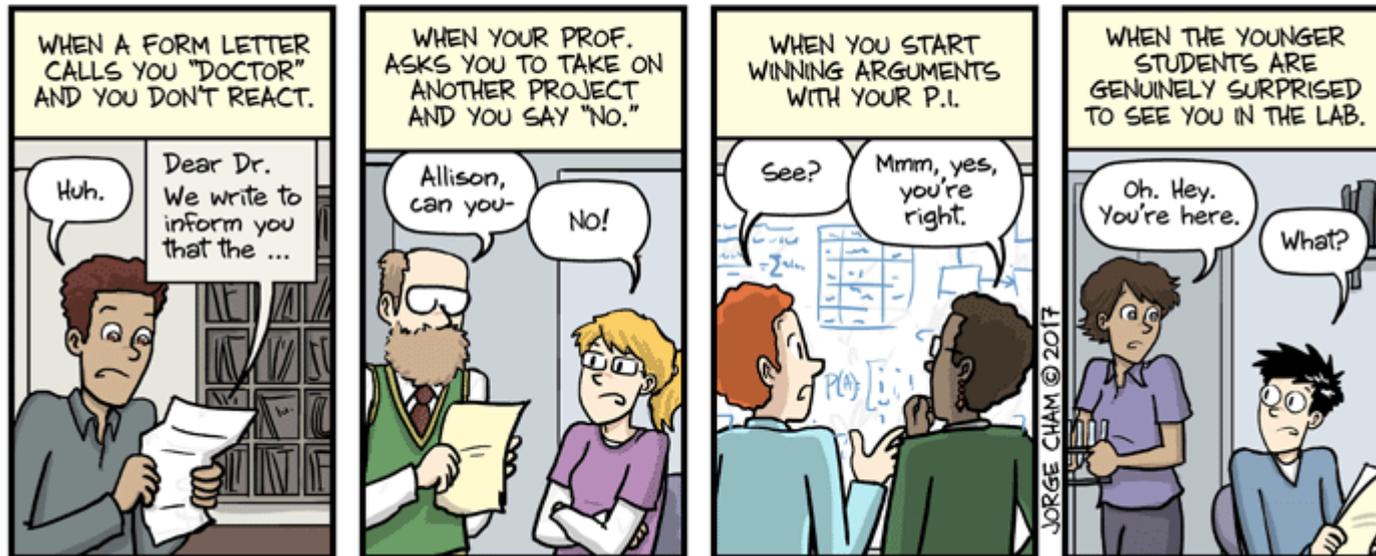
For an overview on all structured doctoral programmes go to:

<https://www.graduateacademy.uni-heidelberg.de/promovieren/promotionsprogramme.html>

How do I know I am ready to graduate?



SIGNS YOU'RE READY TO GRADUATE



What is expected from me after the PhD?

What is a PhD good for?



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What will you gain?

Resilience

Endurance

Critical thinking

Self esteem

Intrinsic motivation

Can do-attitude

Courage

Leadership skills

Respect

Friends for life

...

What will society expect from you?

Resilience

Endurance

Critical thinking

Initiative

Motivation and advice

Accountability

Courage

Insightfulness

Trustworthiness

...

**DON'T
QUIT !**



Entering the labor market with a PhD



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What will be easier ?

- Avoiding routine
- Life long learning
- Work-life integration
- Freedom of thought
- Taking responsibility
- Visibility
- Securing leadership positions
- ...

What will be harder ?

- Securing your first position
- Over qualification risk
- Work-life balance
- Higher expectations
- Visibility
- You follow the job market
- ...

What are myths ?

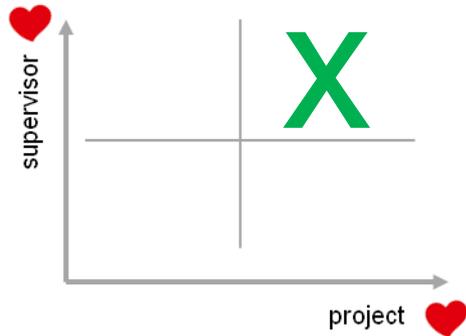
- Making more money
- Broader choice of jobs
- Job security
- ...

How to manage a PhD?



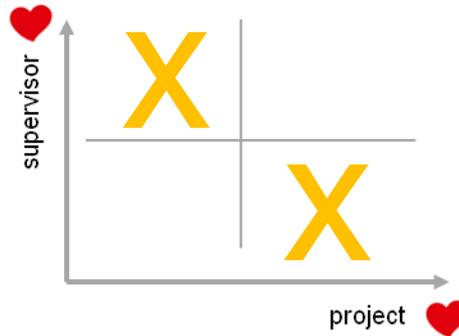
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Happiness, satisfaction, resilience, work-life balance



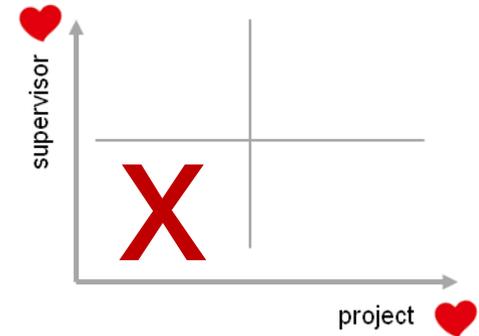
Great –

- keep going,
- nurture
- and enjoy!



Fix it –

- talk to people
- identify sinks
- keep observing!

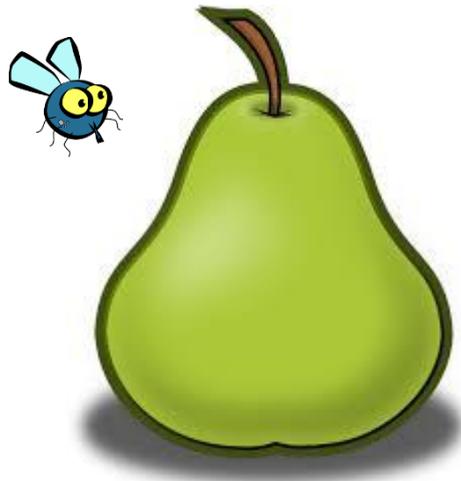


Drastic change is
much needed –

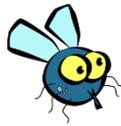
- talk to people
- think about plan B!



Whom to contact if anything goes pear-shaped?



Avoid the fly



turning into a big white elephant...

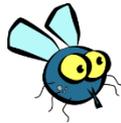


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... communication is key!

Avoid the fly



turning into a big white elephant...



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Talk (*selectively!*) to

- your supervisor
- your 2nd supervisor/mentor/TAC members
- your peers or the postdoc you work with
- the student representative(s)
- the PhD program coordinator
- **us – contact the Graduate Academy**
- the department head / Dean of Graduate Studies
- the equal opportunity office (Gleichstellungsbüro)
- the ombudsperson

... and start talking early on; communication is key!



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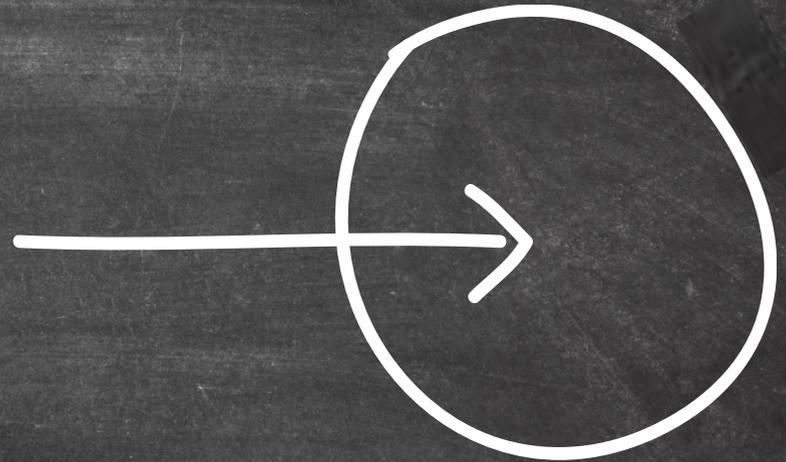
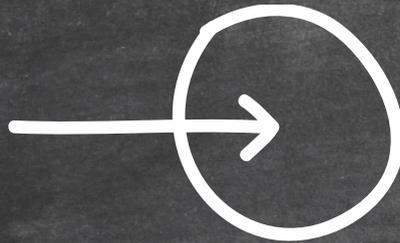
What is a PhD?



2024

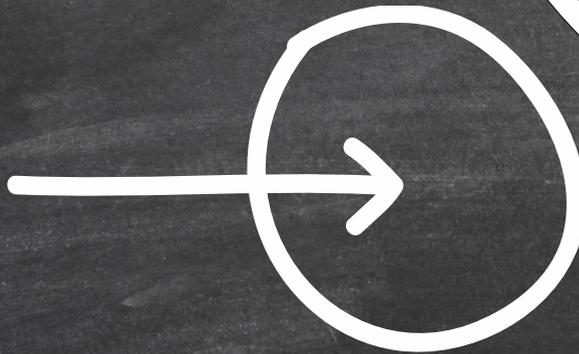
2028

your
comfort
zone



Adapted from <https://pbs.twimg.com/media/CRvORSqUEAAED5t.jpg>

**your
comfort
zone**



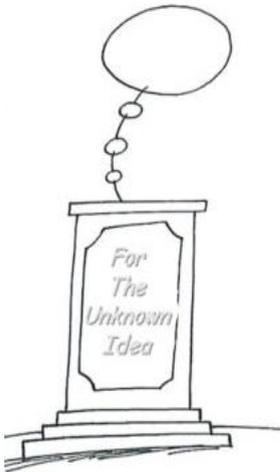
**Where the
magic happens**

Get in touch – stay in touch!



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There is always
space for YOUR ideas:



© Manfred Bofinger & Ming Fai Chow

To PhD or not to PhD ?
—
**if this is the question,
please, do not hesitate
to take an appointment!**

<http://www.graduateacademy.uni-heidelberg.de/>
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