TU Informatics

TU Wien Informatics Doctoral School

Information Event
March 5, 2024

Andreas Steininger

TU WIEN | Informatics

common roof formed by
TU Wien Informatics Doctoral School

different ways of funding a doctoral degree at our faculty

| **Doctoral Colleges** | **Teaching Assistants** | **Research Assistants** | **Self-Funded PhDs** | ... |

different areas, different institutes, different supervisors, ...

but the same curriculum, process, evaluation criteria apply to every doctoral student

the Doctoral School is not a secluded club –
every doctoral student is considered member of our Doctoral School

currently ~400

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Excellent Education for Doctoral Students

✓ Excellent Supervision

➤ Well-thought Dissertation Process

➤ Quality Assurance

➤ Structured Curriculum

➤ Top-class Guest Professors

➤ Information & Support of Students

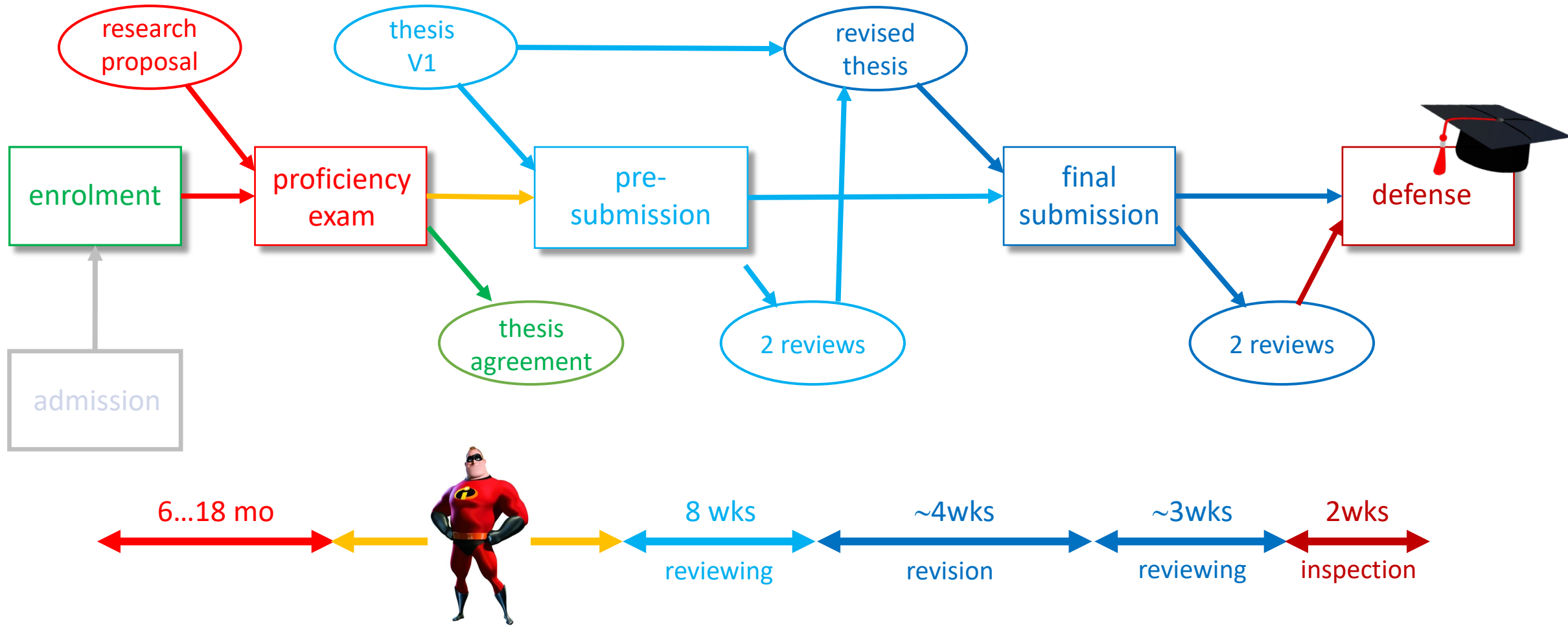➤ Teambuilding & Socializing

TU Wien Informatics Doctoral School

➢ **Mission:**

✓ …to provide you with an environment that encourages you to contribute to technology advancement through systematic, yet creative research. Our program enables you to become an independent researcher capable of generating, pursuing, and communicating novel research ideas. To achieve this, you will be involved in research activities as soon as possible.

➢ **Services** (in tight cooperation with the Deans of Academic Affairs & Dean's Office):

✓ maintain unified interface inside and to the outside (webpage, Q&A)

✓ implement the basic curriculum (mandatory lectures)

✓ organize guest lectures (selection, invitation, operation…)

✓ organize special courses in house (Current Trends in CS, Proposal Writing)

✓ stimulate teambuilding (social events)

✓ keep contact to doctoral students, provide aid (relay info, give pointers when problems)

✓ inform (events), coordinate, provide facts & figures

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The Path to the Doctoral Degree

research proposal

thesis V1

revised thesis

enrolment → proficiency exam → pre-submission → final submission → defense

thesis agreement

2 reviews

2 reviews

admission

6...18 mo   8 wks   ~4wks   ~3wks   2wks
reviewing   revision   reviewing   inspection

research proposal (~10p) & presentation (30')

- ✓ outline the research challenge you want to address

- ✓ put in context with related work (>10 ref's)

- ✓ outline envisioned methodology

- ✓ sketch the expected output

- ✓ give a time table including publications

- ✓ present a plan for your 18 ECTS coursework
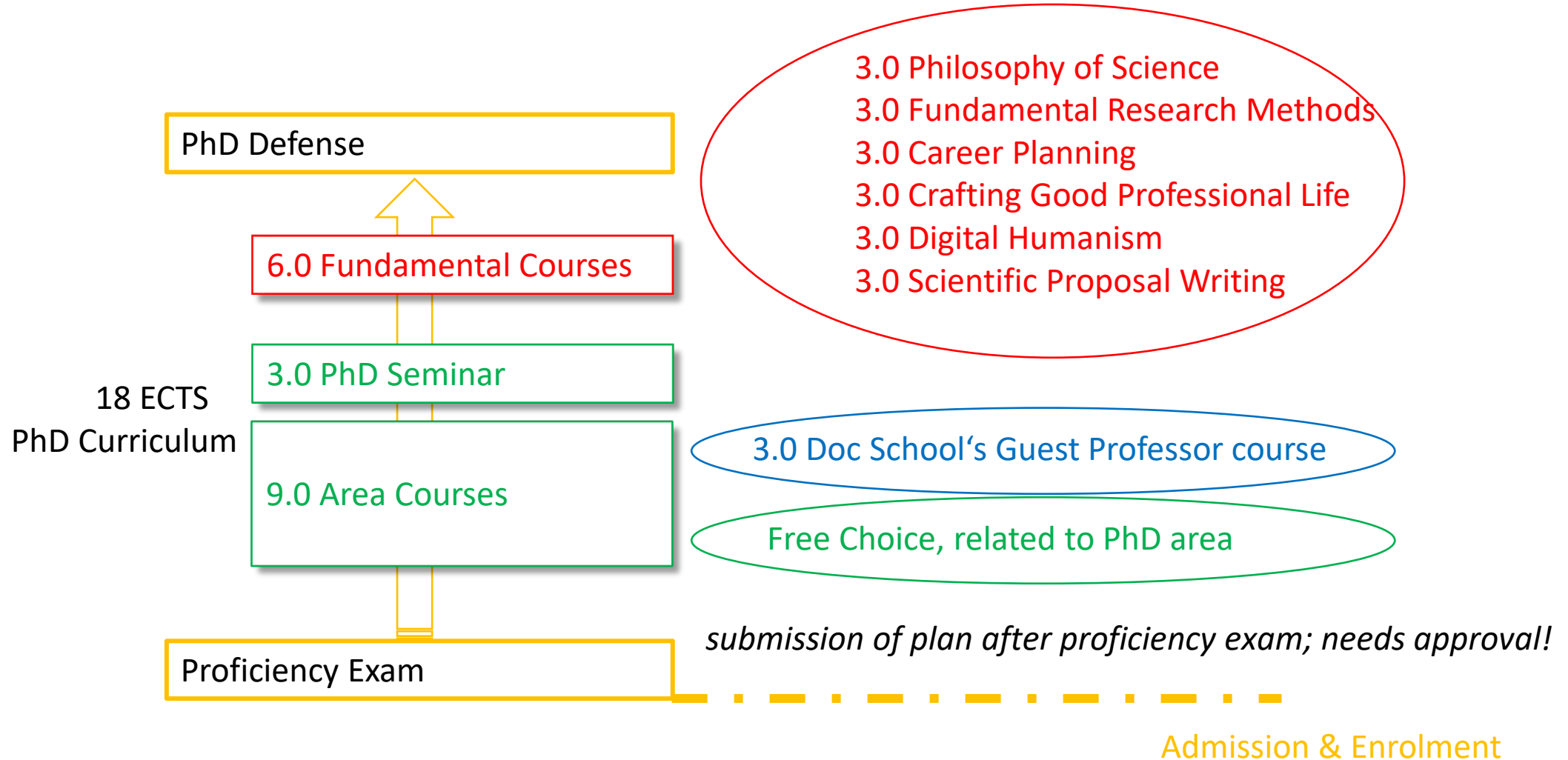
Is the topic scientifically challenging?

Is the candidate proficient in the field?

Is the methodology appropriate?

Is the thesis doable?

Does the candidate know the relevant venues?

Does the plan align with the rules, does it make sense?

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- ✓ early feedback & transparency through proficiency exam
- ✓ extra guidance by PE members: National Expert & Chair
- ✓ extra certainty through clear commitments in thesis agreement
- ✓ grading of thesis by 2 independent experts
- ✓ possibility for thesis revision
- ✓ thesis & reviews open for inspection by faculty

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Structured Curriculum

PhD Defense

6.0 Fundamental Courses

3.0 Philosophy of Science
3.0 Fundamental Research Methods
3.0 Career Planning
3.0 Crafting Good Professional Life
3.0 Digital Humanism
3.0 Scientific Proposal Writing

18 ECTS
PhD Curriculum

3.0 PhD Seminar

9.0 Area Courses

3.0 Doc School's Guest Professor course

Free Choice, related to PhD area

Proficiency Exam

submission of plan after proficiency exam; needs approval!

Admission & Enrolment

As a reminder: In total minimum18 ECTS required

- **fundamental courses**
  - Philosophy of Science   (M)
  - Research & Career Planning for Doctoral Students   (M)
  - Fundamental Research Methods for Doctoral Students   (M)
  - Crafting Good Professional Life
  - Digital Humanism
  - Scientific Proposal Writing

  min 6 ECTS, min 1 methodology

- **area courses**
  - PhD seminar, 3 ECTS
  - visiting professor courses, min 3 ECTS
  - own choice of courses related to research area

  min 12 ECTS, at most 6 ECTS seminar or PV

submission of plan after proficiency exam; need approval!

- Information of the Dean's Office about Doctoral Study Process
  https://informatics.tuwien.ac.at/study-services/doctoral-graduation/

- Webpage of the TU Wien Informatics Doctoral School
  https://informatics.tuwien.ac.at/doctoral/

- Standard Procedure for Doctoral Program at the Faculty of Informatics
  https://informatics.tuwien.ac.at/doctoral/procedure/

- Registration to Doctoral School news:
  https://inn.tuwien.ac.at/socialevents_doctoralstudents

- Admission Office
  https://www.tuwien.at/en/studies/admission/the-conditions-for-international-students/doctoral-programme/

- Psychosocial Counseling
  https://www.tuwien.at/en/studies/studying-at-tu-wien/psychosocial-counselling

- Ombudsperson for students
  https://www.tuwien.at/en/studies/student-support-services/ombudspersons-office-for-academic-affairs

Curriculum TISS

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Top-class Guest Professors

https://informatics.**tuwien.ac.at**/guests/

Guest Professors

International collaboration and exchange is in our DNA.
We host a multitude of guest professors from all over
the world each year.

2024

Gordana Dodig-Crnko...
Mälardalen University and Chal...
Sweden

Wolfgang Reisig
Humboldt-Universitaet Berlin
Germany

Konrad Rieck
TU Berlin
Germany

Viola Schiaffonati
Politecnico di Milano
Italy

Logitech Presentation

- **199.019 System Modeling in Informatics and Business Informatics: Motivation, Principles, Case Studies**
  Lecturer: Prof. Wolfgang Reisig, Humboldt-Universitaet Berlin
  Course start: April 8

- **199.108 Digital Ethics and the Connected World**
  Lecturer: Prof. Gordana Dodig-Crnkovic, Mälardalen University & Chalmers University of Technology.
  Course start: May 2

- **199.017 Artificial Intelligence in Computer Security**
  Lecturer: Prof. Konrad Rieck, TU Berlin
  Course start: May 13

  all VU 3.0

- **199.018 Experimentation in the digital world**
  Lecturer: Prof. Viola Schiaffonati, Politecnico di Milano
  Course start: June 12

- **195.079 Fundamental Research Methods for Doctoral Students**,
  course start: March 19

  - Introduction to Methodologies and Paradigms   P. Wozniak
  - Qualitative Methods   P. Wozniak
  - Formal Methods   U. Egly
  - Quantitative Methods   A. Posekany
  - Design Methods   C. Huemer

- **195.109 ProWriting – Effective Research Project Proposal Writing for Public Funding**
  course start: March 8
  - Lecturers: S. Biffl, A. Ciabattoni, C. Maszl-Kantner, E. Schludermann, A. Steininger

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Current Trends in Computer Science (VU 1.5, 195.072)

- Ring lecture with talks given by the guest professors of the current study year
- offered throughout winter and summer term
- Highly probable that we have 6 talks in total during this study year 2023/24 (check TISS & TUWEL)

requirements for positive grade:

- Preferably students attend 4 talks, choose 3 of those for their report and give a summary of at least 2 pages for each.
- For students who can only attend 3 talks this summary must comprise at least 3 pages for each talk.

The course will end after the summer term, a further combination with talks of the winter term 24/25 will not be possible.

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Information, Teambuilding, Socializing

➢ **Regular Info Events** (process, upcoming guest prof courses, Q&A,…)

➢ **Social Events**

   ➢ Special-focus Guided Tours
           ("Vienna for students", "Hidden Secrets of Vienna", …

   ➢ Visit & Tour of Ottakringer Beer Brewery

   ➢ Visit of Vienna Museum of History

   ➢ Visit of Christmas Market

   ➢ …

o Date: June 14 (plus optional trainings before)

o Registration: by April 4 at o clarissa.schmid@tuwien.ac.at

o Skills: team spirit only

o Costs: covered by our faculty

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You want to receive information about future social events

- please register here:

https://inn.tuwien.ac.at/socialevents_doctoralstudents

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Thank you!