TU WIEN Informatics

TU Wien Informatics Doctoral School

Information Event
March 2, 2023

Andreas Steininger

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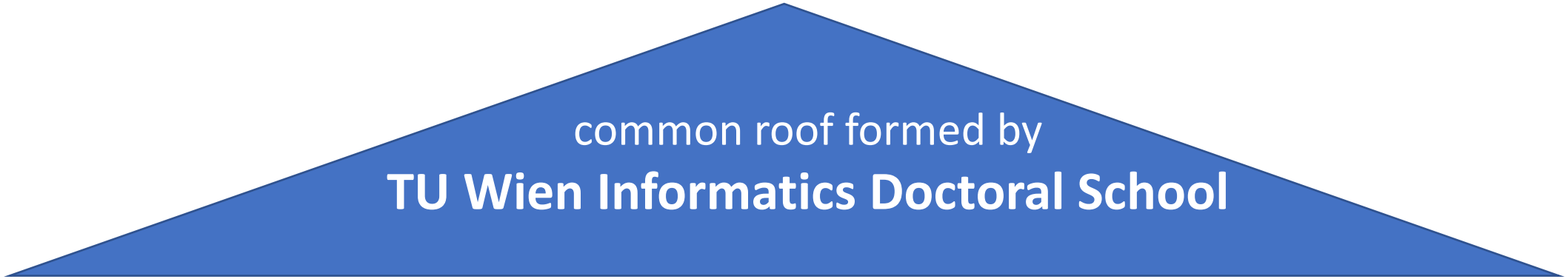
Doctoral Education at our Faculty



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 370

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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

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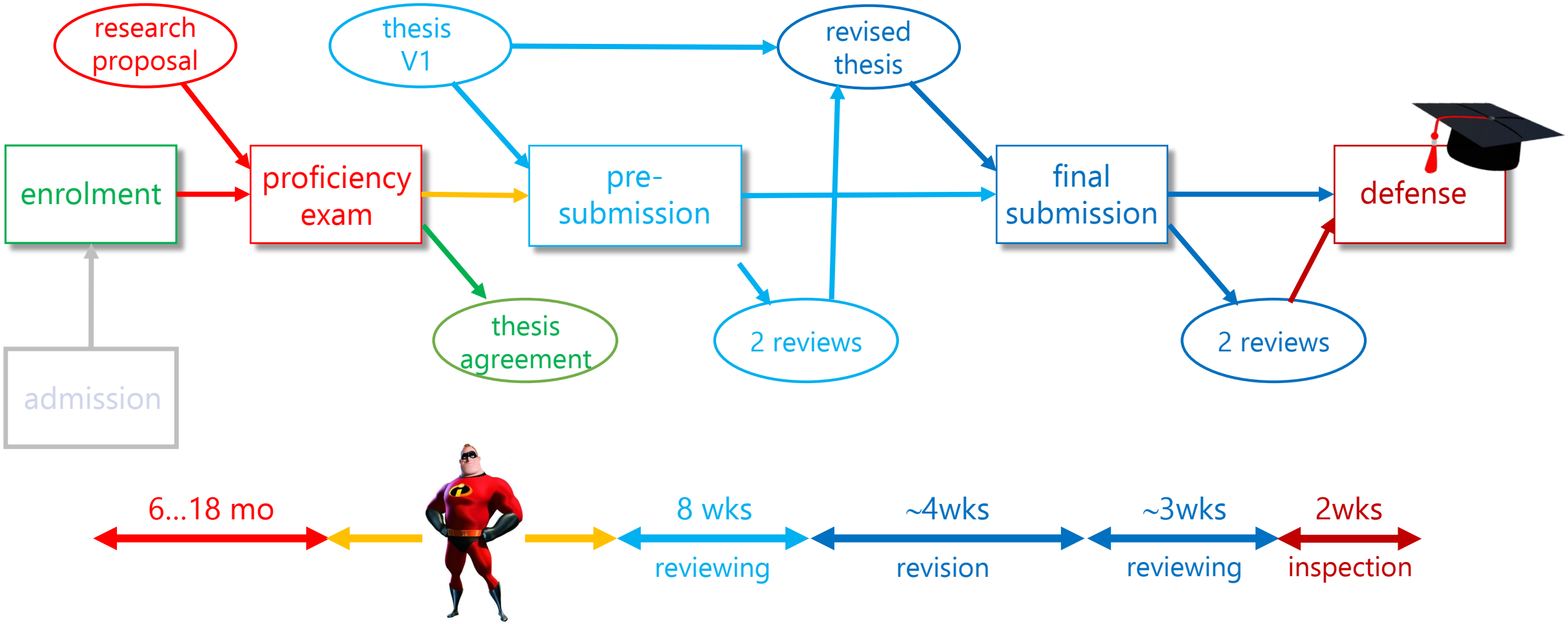
TU Wien Informatics Doctoral School

- **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

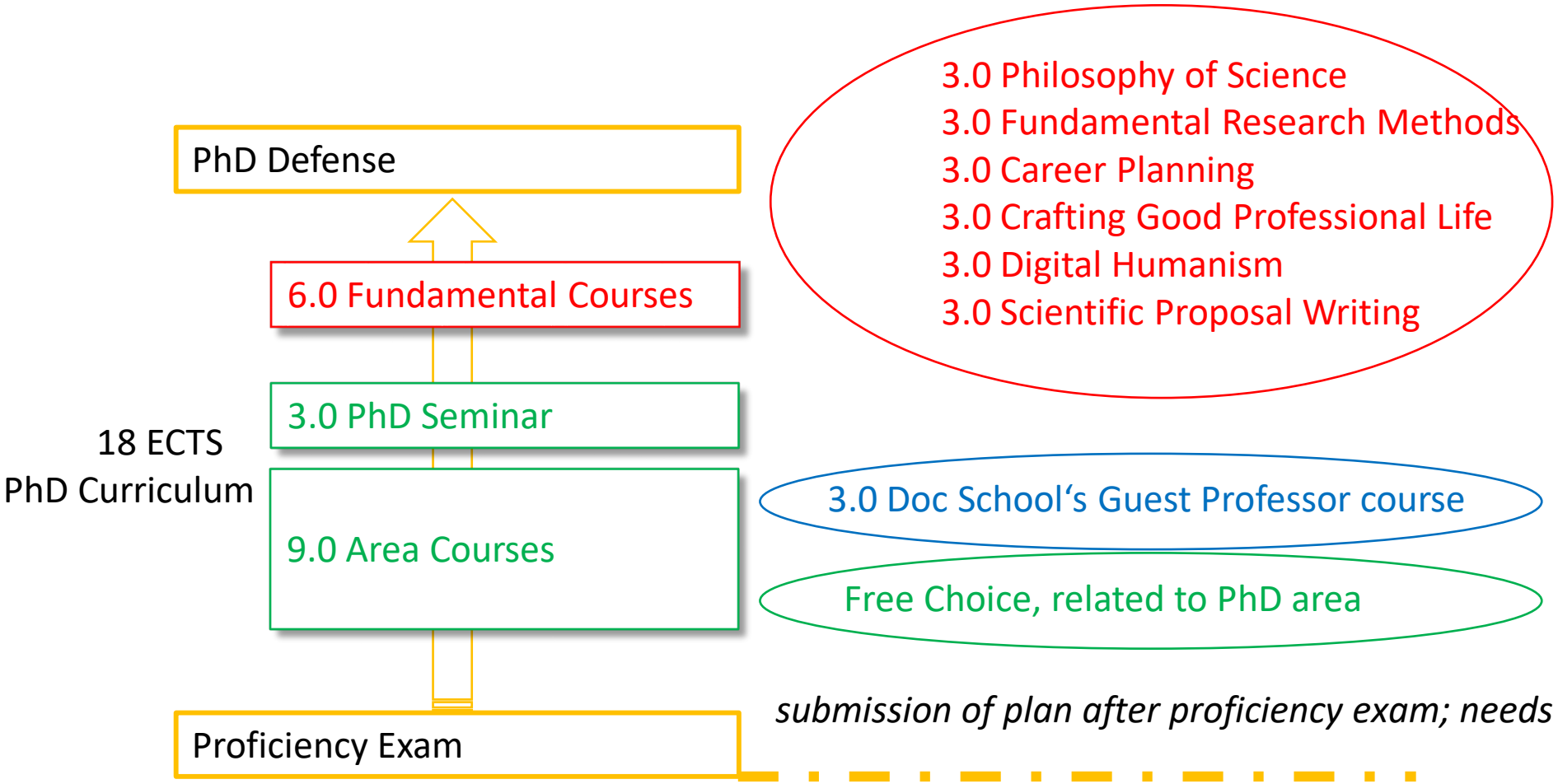
The Path to the Doctoral Degree



Quality Assurance

- ✓ 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

Structured Curriculum



Curriculum Structure

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!

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Important Sources of Information

- 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/

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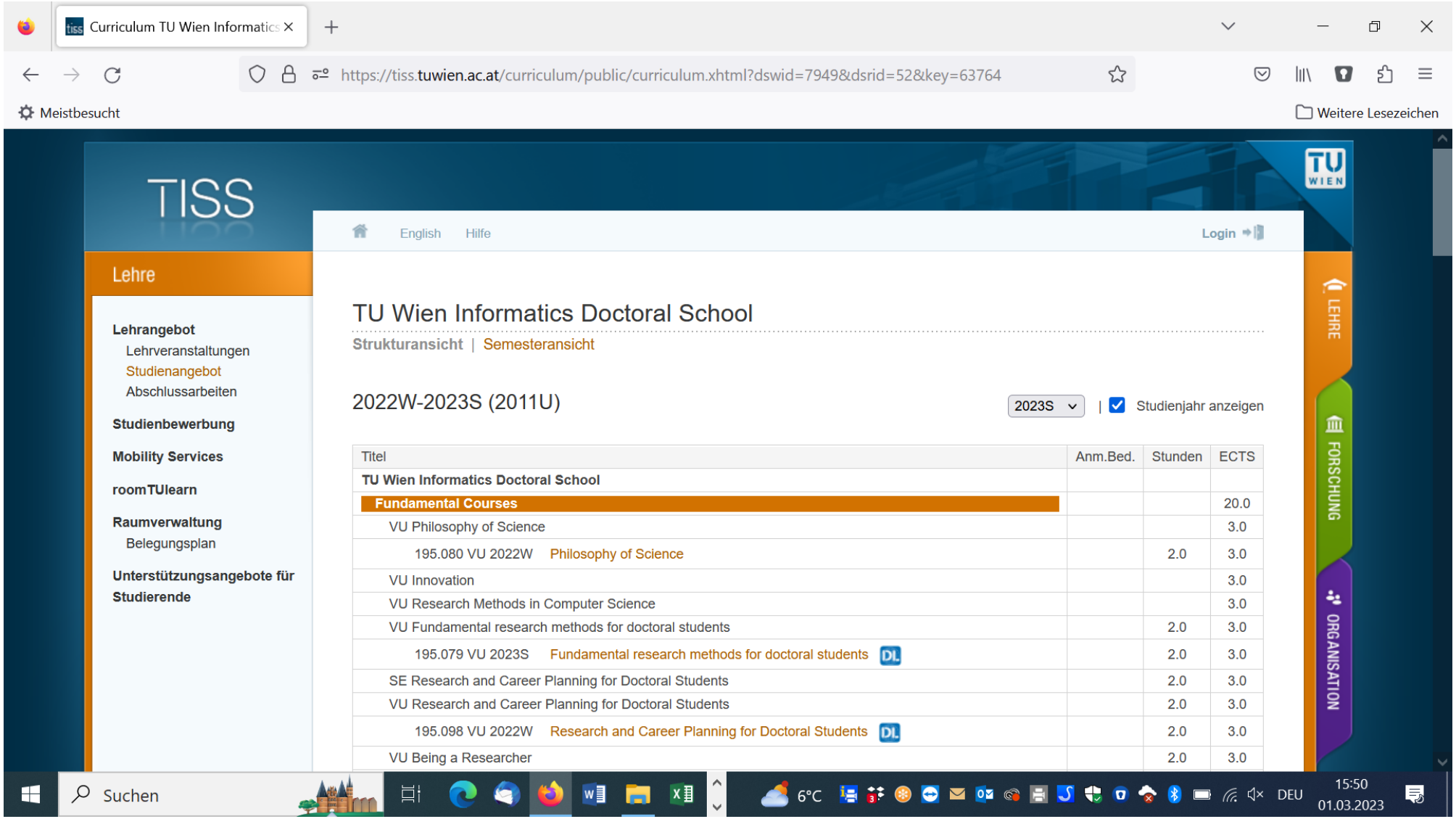
Curriculum TISS



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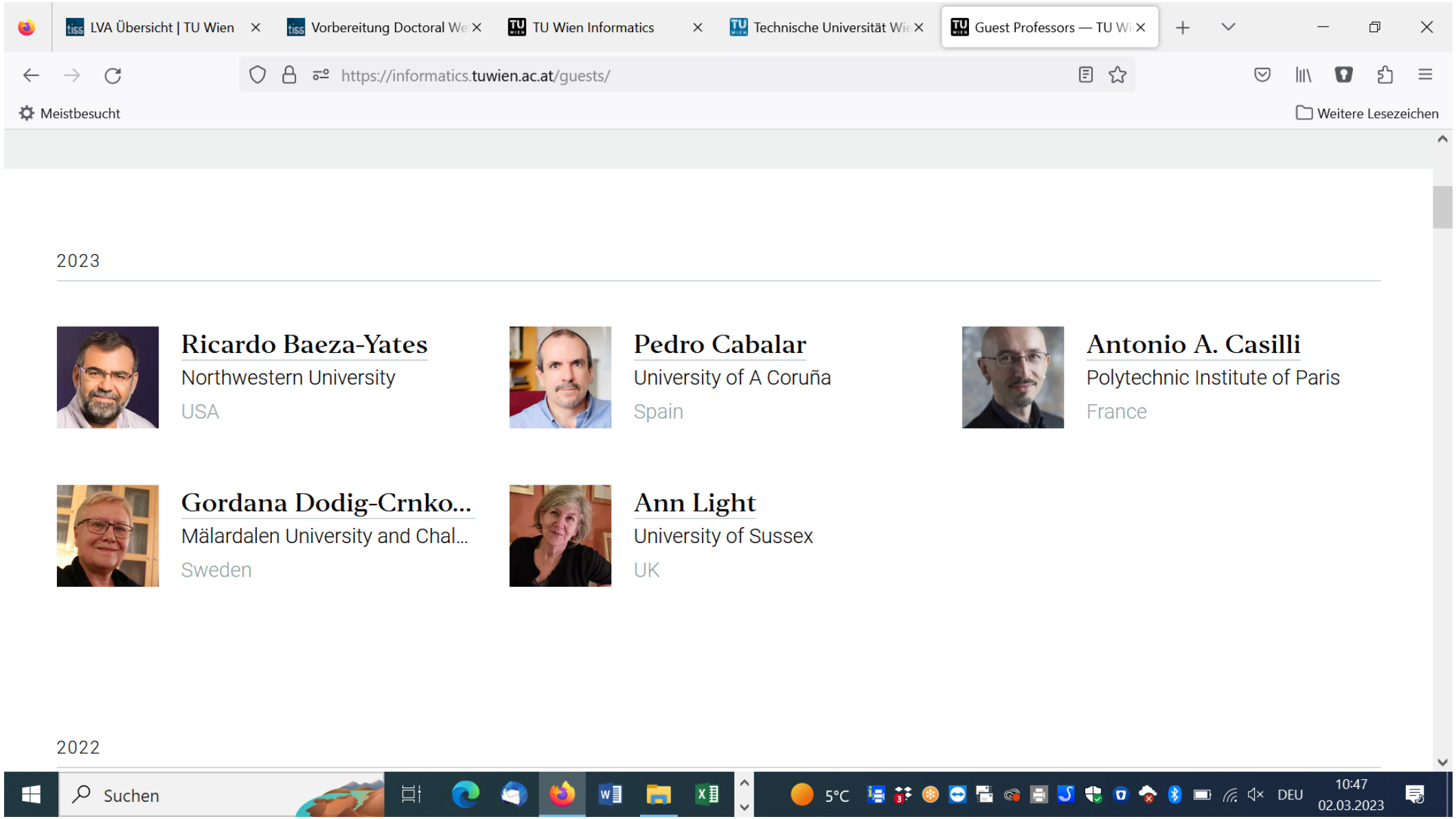
Top-class Guest Professors



Area Courses by Guest Professors – SS23

all VU 3.0

- **Eight Lessons on Ethical AI**
  Course 199.109
  Course start May 2
  Lecturer: Prof. Antonio A.Casilli,
  Polytechnic Institute of Paris, France

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

- **Designing Differently, Imagining Collaboratively: The Need for Socio-Technical Alternatives**
  Course 199.111
  Course start: May 9
  Lecturer: Prof. Ann Light,
  University of Sussex, UK

Area Courses by Guest Professors – SS23

- **Non-Monotonic Extension of Temporal Logic**
  Course 199.107
  Course start: May 31
  Lecturer: Prof. Pedro Cabalar,
  University of A Coruña, Spain

- **Introduction to Responsible AI**
  Course 199.110
  Course start: June 5
  Lecturer: Prof. Ricardo Baeza-Yates,
  Northwestern University, USA

all VU 3.0

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Fundamental Courses – Summer Term

- **Fundamental Research Methods for Doctoral Students,**
  course 195.079
  schedule: course start March 7

Introduction to Methodologies and Paradigms	K. Spiel
Qualitative Methods	G. Fitzpatrick
Formal Methods	U. Egly
Quantitative Methods	A. Posekany
Design Methods	C. Huemer

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

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 at least 7 talks in total during this study year 2022/23
  (3 talks have already been in winter term)

requirements for positive grade:

Preferably students attend 5 talks, choose 3 of those for their report and give a summary of at least 2 pages for each.

Students who can only attend 4 talks also pick 3 talks for their summary, but 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 23/24 will not be possible.)

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
  - …

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You want to receive information about future social events

- please register here:

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

Thank you!