

**Application for Admission to the Doctoral School “Dissipation and Dispersion
in Nonlinear Partial Differential Equations” and Application to the Special
Research Program “Taming Complexity in Partial Differential Systems”**

Please fill out and send to manuela.khaladj@tuwien.ac.at

Biographical Information

Last Name: _____ First Name: _____

Date of Birth (Day-Month-Year): _____ City, State of Birth: _____

Citizenship: _____ Marital Status: Married Single Gender: Female Male

Permanent Address: _____

_____ Country: _____

E-mail: _____

Academic Information:

Indicate the highest level of education you have earned: Bachelor Master Ph.D.

Master Degree or Equivalent in Progress Complete

Name of Degree: _____

College / University Name: _____

City / Country: _____

Starting Date (Month-Year): _____ Completion Date (Month-Year): _____

Years Attended: _____ Grade: _____

Additional Education in Progress Complete

Name of Degree: _____

College / University Name: _____

Address: _____

Starting Date (Month-Year): _____ Completion Date (Month-Year): _____

Years Attended: _____ Grade: _____

Additional Education in Progress Complete

Name of Degree: _____

College / University Name: _____

Address: _____

Starting Date (Month-Year): _____ Completion Date (Month-Year): _____

Years Attended: _____ Grade: _____

Application for Admission to the Doctoral School “Dissipation and Dispersion in Nonlinear Partial Differential Equations” and Application to the Special Research Program “Taming Complexity in Partial Differential Systems”

Please fill out and send to manuela.khaladj@tuwien.ac.at

Academic Honors and Awards: <hr/> <hr/> <hr/>

Native and Foreign Language Information:

Please indicate your native language: _____

High = Fluency, accuracy, range of an educated native user of the language

Moderate = Able to read non-technical materials and technical writing in one’s field and carry on an exchange of ideas

Low = Able to read simple propose with difficulty, follow simple conversation, but not as a means of exchanging ideas.

Language 1:

Speaking Ability	Reading Ability	Writing Ability
<input type="checkbox"/> High	<input type="checkbox"/> High	<input type="checkbox"/> High
<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate
<input type="checkbox"/> Low	<input type="checkbox"/> Low	<input type="checkbox"/> Low

Language 2:

Speaking Ability	Reading Ability	Writing Ability
<input type="checkbox"/> High	<input type="checkbox"/> High	<input type="checkbox"/> High
<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate
<input type="checkbox"/> Low	<input type="checkbox"/> Low	<input type="checkbox"/> Low

Language 3:

Speaking Ability	Reading Ability	Writing Ability
<input type="checkbox"/> High	<input type="checkbox"/> High	<input type="checkbox"/> High
<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate
<input type="checkbox"/> Low	<input type="checkbox"/> Low	<input type="checkbox"/> Low

Other Languages: _____

Most important publications or original work (if applicable) You may attach a resume with more details if needed.

1. Title _____

Refer./Citation _____

2. Title _____

Refer./Citation _____

Relevant work experience (if applicable) You may attach a resume with more details.

1. Employer: _____ Start Date: _____

Position: _____ End Date: _____

2. Employer: _____ Start Date: _____

Position: _____ End Date: _____

Application for Admission to the Doctoral School “*Dissipation and Dispersion in Nonlinear Partial Differential Equations*” and Application to the Special Research Program “*Taming Complexity in Partial Differential Systems*”

Please fill out and send to manuela.khaladj@tuwien.ac.at

Research Interests

Indicate your preferences for the research projects of the doctoral program*.

- Degenerate Fokker-Planck equations and reversed logarithmic Sobolev inequalities (Arnold, DK)
- Model-risk in finance - a transport viewpoint (Beiglböck, DK)
- Macroscopic models for spintronics (Jüngel, DK)
- Geometry of generalized transport metrics (Maas, DK)
- Nonlinear Schrödinger equations (Mauser, DK)
- Numerical methods for wave equations (Melenk, DK)
- Model order reduction for frequency response problems (Perugia, DK)
- Effective numerical methods for time-dependent micro-magnetics (Praetorius, DK)
- Hypocoercivity and chemical reactions in kinetic transport (Schmeiser, DK)
- Pressure robust discretization methods for Navier-Stokes equations (Schöberl, DK)
- Elliptic regularization of nonlinear evolution equations (Stefanelli, DK)
- Long-time asymptotics for integrable wave equations (Teschl, DK)
- Large-time behavior of continuous dissipative systems (Arnold, SFB)
- Large-time behavior of discrete dissipative systems (Jüngel, SFB)
- Structure preserving variational discretisation via optimal transport (Maas,SFB)
- PDE models for transportation networks (Markowich, SFB)
- Time dependent (magnetic) Schrödinger equations (Mauser, SFB)
- High order numerical methods for nonlocal operators (Melenk, SFB)
- Problem-adapted discretisations of wave equations (Perugia, SFB)
- Coupling in computational micromagnetics (Praetorius, SFB)
- Large-time and macroscopic asymptotics in kinetic transport (Schmeiser, SFB)
- Automated discretization in multiphysics (Schöberl, SFB)
- Multiphysics effects in solids (Stefanelli, SFB)

Preferences & Additional Information

I certify that the information provided on this application is, to the best of my knowledge, complete and accurate.

* DK = Doctoral School, SFB = Special Research Program