

# TEACHING

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## Technische Universität München, 2015–2021

- SS 2021      Lecture *Numerical Programming II*
- WS 2020/21    Lecture *Numerical Programming I*  
Seminar *Algorithms from the book*
- SS 2020      Lecture *Elements of Harmonic Analysis*  
Workshop *Ebene und Raum*  
Seminar *Computing Highly Oscillatory Integrals*
- SS 2019      Lecture *Einführung in die Mathematik II*  
Vorlesung *Numerische Mathematik (EI)*  
Seminar *Molecular Dynamics*
- WS 2018/19    Lecture *Einführung in die Mathematik I*  
Lecture *Elements of Harmonic Analysis*  
Seminar *Frames*
- SS 2018      Lecture *Einführung in die Mathematik II*  
Lecture *Quantum Dynamics III*  
Seminar *Quantum Control*  
Workshop *Komplexe Zahlen und Funktionen*
- WS 2017/18    Lecture *Einführung in die Mathematik I*  
Lecture *Quantum Dynamics II*  
Seminar *Quantum Theory for Mathematicians*
- SS 2017      Lecture *Linear Algebra II for teachers*  
Lecture *Quantum Dynamics*  
Seminar *Classical Mechanics*
- WS 2016/17    Lecture *Linear Algebra I for teachers*  
Lecture *Elements of Harmonic Analysis*  
Seminar *Markov chain Monte Carlo methods* (with Gantert)
- SS 2016      Lecture *Linear Algebra II for teachers*  
Lecture *Wavelets*  
Seminar *Matrix theory*
- WS 2015/16    Lecture *Linear Algebra I for teachers*  
Lecture *Monte Carlo Methods*  
Seminar *Early Fourier Analysis*
- SS 2015      Lecture *Numerical Programming II*  
Supplements for *Introduction to Mathematics for Teachers II*  
Workshop *One Mathematician, one Proof*

(WS abbreviates winter semester, SS summer semester)

**Technische Universität München, 2010–2014**

- WS 2014/15    Lecture *Numerical Programming I*  
                   Supplements for *Introduction to Mathematics for Teachers I*
- WS 2013/14    Lecture *Linear Algebra I for teachers*  
                   Seminar *Simple Monte Carlo algorithms*  
                   Seminar *Geometric Numerical Integration*
- SS 2013        Lecture *Linear Algebra II for teachers*  
                   Seminar *Mechanics: classical and beyond*
- WS 2012/13    Lecture *Linear Algebra I for teachers*  
                   Seminar *Wavelet Analysis*
- SS 2012        Lecture *Numerical Programming II*  
                   Seminar *Breaking the Worst Case* (with Bornemann)  
                   Proseminar *Fourier Series* (with Deiser)
- WS 2011/12    Lecture *Numerical Programming I*  
                   Lecture *Case Studies in Numerics (Quantum Dynamics)*  
                   Seminar *Approximation Theory and Practice*
- SS 2011        Lecture *Numerik*  
                   Proseminar *Benford's Law*
- WS 2010/11    Lecture *Numerical Programming I*  
                   Proseminar *Eigenvalues in finite dimensions*  
                   Seminar *Electronic wave functions* (with Bornemann)
- SS 2010        Lecture *Monte Carlo Methods*

**Freie Universität Berlin, 2005–2009**

- WS 2009/10    Lecture *Linear Algebra II for teachers*  
                   Seminar *Mathematics for quantum mechanics*
- SS 2009        Lecture *Functional Analysis II*  
                   Seminar *Introduction to stochastic differential equations*
- WS 2008/09    Lecture *Functional Analysis I*  
                   Seminar *Stochastic methods of applied mathematics*
- SS 2008        Lecture *Stochastics II*  
                   Seminar *Quantum dynamics in semiclassical approximations*
- WS 2006/07    Lecture *Mathematical introduction to quantum dynamics*
- WS 2005/06    Seminar *Visual quantum mechanics* (with Hege & Jahnke)