

TEACHING

CAROLINE LASSER

MARCH 24, 2023

Compact courses

- July 2022 Numerical methods for quantum dynamics
 Summer school *Computational Mathematics* in Gdansk
- March 2020 Numerical analysis of high-dimensional quantum dynamics
 PhD course, Ecole de Ponts Paris Tech

Technische Universität München, 2017–2023

- WS 2022/23 Lecture *Numerical Programming I*
 Seminar *Quantum Dynamics in Chemistry*
- 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 abbreviates winter semester, SS summer semester)

Technische Universität München, 2010–2016

- 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 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

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