

Tobias König

born 18 April 1991 in Burghausen, Germany

CONTACT

Address: Mathematisches Institut der Universität München,
Theresienstr. 39, 80333 Munich, Germany
E-mail: tkoenig@math.lmu.de
Website: <http://www.mathematik.uni-muenchen.de/~tkoenig/>
Telephone: +49 89 2180 4454

EDUCATION

Ludwig-Maximilians-Universität, Munich, Germany

PhD studies since September 2016, advisor: Rupert Frank

M.Sc. degree in Mathematics, average grade 1.00 (best possible), August 2016

Title of Master's thesis: 'Oscillation bounds for radial eigenfunctions of the fractional Schrödinger operator', advisor: Thomas Østergaard Sørensen

Bachelor studies in Mathematics and Physics, 2011–2013

Ecole Normale Supérieure, Paris, France

Licence de mathématiques (equivalent to B.Sc.), average grade 14.9 (out of 20), 2014

König-Karlmann-Gymnasium, Altötting, Germany

Abitur (high school diploma), average grade 1.0 (best possible), 2010

RESEARCH INTERESTS

Calculus of variations, Analysis of PDEs, Mathematical Physics, in particular:

- Fractional and Higher-order Laplacian
- Liquid Drop Model

INVITED TALKS

Oberseminar Analysis, LMU Munich August 2016
Oscillation bounds for radial eigenfunctions of the fractional Schrödinger operator (on Master's thesis)

Workshop 'Effective equations', Mannheim December 2017
Classification of positive singular solutions to a nonlinear biharmonic equation with critical exponent

TEACHING EXPERIENCE

Teaching assistant for various undergraduate and graduate courses at LMU Munich (since 2016): Functional Analysis II, Complex Analysis, Analysis I. Tasks include scheduling and holding exercise sessions, hiring student assistants and designing homework sheets.

HONORS AND AWARDS

Award of the *Carathéodory Society* for best Master's thesis of the academical year 2015/16 at LMU math department

Scholarship of the *Studienstiftung des deutschen Volkes* (German Academic Scholarship Foundation) and the *Max-Weber-Programm* (Scholarship program of the State of Bavaria)

Doctoral fellowship of the *Studienstiftung des deutschen Volkes*