FABIAN SCHUHMANN

PERSONAL INFORMATION

Born in Freising, Germany, 7th May 1991

email	fabian.schuhmann@uni-oldenburg.de
website	fabianschuhmann.github.io

CURRENT EMPLOYMENT

PhD student · 2020-now · Carl von Ossietzky University Oldenburg · PhD student in the group of Prof. Dr. Ilia A. Solov'yov · Thesis topic: **Development of theoretical and computational methods for biophysical applications**

EDUCATION

Master of Science · 2017-2019 · RUHR UNIVERSITY BOCHUM · Faculty of Mathematics
Thesis: *Dynamics of billiards with emphasis on the length of the shortest periodic billiard trajectory*

Bachelor of Science · 2013-2016 · RUHR UNIVERSITY BOCHUM · Faculty of Mathematics
Thesis: *Das Brunn-Minkowski Theorem und die isoperimetrische Ungleichung*

Bachelor of Science · 2011-2016 · RUHR UNIVERSITY BOCHUM · Faculty of Economics
Thesis: *Globaler Umweltschutz als Problem der privaten Bereitstellung eines öffentlichen Gutes*

PUBLICATIONS

THE TRANSITION OF PHOTORECEPTOR GUANYLATE CYCLASE TYPE 1 TO THE ACTIVE STATE
Manisha Kumari Shahu, Fabian Schuhmann, Alexander Scholten, Ilia A. Solov'yov, Karl-Wilhelm Koch
International Journal of Molecular Sciences 2022, Volume 23, Issue 7, p. 4030

EXPLORING POST-ACTIVATION CONFORMATIONAL CHANGES IN PIGEON CRYPTOCHROME 4
Fabian Schuhmann, Daniel R. Kattnig, Ilia A. Solov'yov
The Journal of Physical Chemistry B 2021, Volume 125, Issue 34, p. 9652-9659 (chosen for cover)

NAVIGATION OF MIGRATORY SONGBIRDS: A QUANTUM MAGNETIC COMPASS SENSOR
Siu Ying Wong, Anders Frederiksen, Maja Hanić, Fabian Schuhmann, Gesa Grüning, P. J. Hore, Ilia A. Solov'yov
Neuroforum 2021, Volume 27, Issue 3, p. 141-150

INTRODUCING PEP MCCONST—A USER-FRIENDLY PEPTIDE MODELER FOR BIOPHYSICAL APPLICATIONS
Fabian Schuhmann, Vasili Korol, Ilia A. Solov'yov
Journal of Computational Chemistry 2021, Volume 42, Issue 8, p. 572-580

TEACHING EXPERIENCE

Teacher	2021 · Carl von Ossietzky University Oldenburg · In charge of a two-weeks mathematics crash course to bridge the gap between school mathematics and university mathematics
Tutor	2020 · Carl von Ossietzky University Oldenburg · Mathematical Modelling for future teachers · summer term 2020
Tutor	2017-2019 · Ruhr-University Bochum Mathematics for Biologists · winter term 18/19 Mathematics for Engineers II · summer term 18 Mathematics for Engineers I · winter term 17/18
Assistent	2016-2018 · Hochschule Bochum · 'Institut für Mathematik und Technikdidaktik'.
Tutor	2015-2019 · Hochschule Bochum · Mathematics for Economists

EXTENSIVE STAYS

Visiting	05/2022 · Living Systems Institute Univery of Exeter · guest of Dr. Daniel Kattnig

OTHER QUALIFICATIONS

Workshops and additional training

Workshop on finances and booking the public sector

Trainer licence C for general sports

Workshop to teaching mathematics by ZAB at Ruhr-University Bochum

Voluntary work

2015-2018 · Member of the Faculty Council Mathematics
Ruhr-University Bochum

2014-2018 · Member of the student representations Mathematics
Ruhr-University Bochum

2010-2011 · Voluntary Social Year
CVJM Westbund e.V. Wuppertal

Languages

GERMAN · Native

ENGLISH · Fluent

Computer Skills

LaTeX · Advanced

PYTHON · Advanced

LINUX · Advanced

C++ · Basic

SLURM · Basic

July 27, 2022