

FABIAN SCHUHMANN

PERSONAL INFORMATION

Born in Freising, Germany, 7th May 1991

email fabian.schuhmann@uni-oldenburg.de

CURRENT EMPLOYMENT

2020-now · Carl von Ossietzky University Oldenburg · research assistant · 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

*International
Journal of
Molecular Sciences*
2022, Volume 23,
Issue 7, p. 4030

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

*The Journal of
Physical
Chemistry B* 2021,
Volume 125, Issue
34, p. 9652-9659
(chosen for cover)

EXPLORING POST-ACTIVATION CONFORMATIONAL CHANGES IN PIGEON CRYPTOCHROME 4 · Fabian Schuhmann, Daniel R. Kattnig, Ilia A. Solov'yov

Neuroforum 2021,
Volume 27, Issue 3,
p. 141-150

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

*Journal of
Computational
Chemistry* 2021,
Volume 42, Issue 8,
p. 572-580

INTRODUCING PEP McCONST—A USER-FRIENDLY PEPTIDE MODELER FOR BIOPHYSICAL APPLICATIONS · Fabian Schuhmann, Vasili Korol, Ilia A. Solov'yov

PRESENTATIONS

<i>ERC Quantum Birds 2022 Oxford UK</i>	CONFORMATIONAL CHANGES IN PIGEON CRYPTOCHROME 4
<i>DySoN-ISACC 2021 Santa Margherita Ligure Italy</i>	VIKING AND ITS FEATURED MULTISCALE TOOLS
<i>Topical Meeting 2020 Kopenhagen Denmark</i>	USER-FRIENDLY PEPTIDE MODELER FOR BIOPHYSICAL APPLICATIONS

TEACHING EXPERIENCE

<i>Teacher</i>	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
<i>Tutor</i>	2020 · Carl von Ossietzky University Oldenburg · Mathematical Modelling for future teachers · summer term 2020
<i>Tutor</i>	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
<i>Assistent</i>	2016-2018 · Hochschule Bochum · 'Institut für Mathematik und Technikdidaktik'.
<i>Tutor</i>	2015-2019 · Hochschule Bochum · Mathematics for Economists

EXTENSIVE STAYS

<i>Visiting</i>	05/2022 · Living Systems Institute University of Exeter · guest of Dr. Daniel Kattnig
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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

L^AT_EX · Advanced
 PYTHON · Advanced
 LINUX · Advanced
 C++ · Basic
 SLURM · Basic

May 25, 2022