

# Arnulf Rosspeintner

## Curriculum Vitæ

Bürgi Group  
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ResearcherID: B-7862-2017

### Personal

Nationality	Austrian (EU citizen, permis C)	Languages	German (native)
Marital Status	married +2		Spanish (C2, DELE exam)
			English (C1, self assessed)
			French (B1, self assessed)

### Current Position

**since 2021** **Collaborateur Scientifique i et ii**, *Department of Physical Chemistry (Bürgi Group)*, University of Geneva (CH)

Projects Chiroptical spectroscopy  
Photophysics/chemistry of atomically-precise metal nanoclusters

**Fields of Expertise** linear and non-linear optical spectroscopy  
ultrafast dynamics  
chemical kinetics  
electron transfer  
organic photophysics

### Professional Experience

**2019–2021** **Suppléant Collaborateur Scientifique**, *Dept. of Physical Chemistry*, University of Geneva (CH), Advisor: Prof. Bürgi

**2013–2019** **Maître Assistant**, *Dept. of Physical Chemistry*, University of Geneva (CH), Advisor: Prof. Vauthey

Projects Kinetics of charge carrier generation and recombination in ionic and conventional liquids  
Solvent dynamic effects on ultrafast electron transfer reactions  
Photophysics of two-photon-photoinitiators

**2010–2013** **Postdoctoral fellow**, *Department of Physical Chemistry*, University of Geneva (CH), Advisor: Prof. Vauthey

Projects Driving force dependence of photo-induced electron transfer (PET) reactions  
PET in ionic and conventional viscous liquids  
Dynamics in multichromophoric dendritic systems  
Photophysics of two-photon-photoinitiators

**2008–2010** **Postdoctoral fellow**, *Institute of Physical and Theoretical Chemistry*, Graz University of Technology (AT), Advisor: Prof. Gescheidt

Projects Charge-transfer based functionality in novel organic materials probed by EPR spectroscopy  
Mechanistic studies of primary reaction steps in photo-initiation processes using TR-EPR

**2005–2006** **Compulsory alternative civilian service (12 months)**, *Caritas*, Graz (AT)

**2003–2008** **Research and Teaching Assistant**, *Institute of Physical and Theoretical Chemistry*, Graz University of Technology (AT), Supervisor: Prof. Grampp

Projects Diffusional effects on photoinduced charge separation reactions  
Magnetic field effects on photo-generated radical ion pairs  
Photophysics of simple organic molecules

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## Education

- 2003–2008 PhD thesis in Physical Chemistry (Dr. techn.), Graz University of Technology, Graz (AT)**  
with distinction
- Supervisor Prof. Grampp  
Title Experimental Observations of Diffusional Effects on Photoinduced Electron Transfer Reactions
- 1995–2003 Diploma in Technical Chemistry (Dipl. Ing.), Graz University of Technology, Graz (AT)**  
with distinction
- 1999–2000 Studies of Chemistry (Erasmus mobility), Universidad de Sevilla, Sevilla (ES)**

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## Teaching Experience

### Undergraduate Teaching

- Lab Courses **Introductory Laboratory Course, Freshman level, 90 hours/year, 2003/2004**  
Supervision of groups of up to 8 students in carrying out laboratory exercises in the following fields: Conductivity measurements of strong and weak electrolytes; Thermochemistry; Nernst's distribution-law; exercises in the field of "light and energy"
- General Physical Chemistry, Bachelor level, 90 hours/year, 2003/2004/2006/2007**  
Supervised groups of 2 to 8 students in carrying out, analysing and reporting on a physical chemistry experiment (fluorescence quenching / bomb calorimetry) related to the lecture courses of Physical Chemistry
- Physical Chemistry 3, Bachelor level, 90 hours/year, 2011-2017**  
Supervised groups of 2 to 3 students (chemistry and biochemistry branch) in carrying out, analysing and reporting on an experiment related to the lecture course on "spectroscopy": fluorescence quenching / relaxation times via NMR spectroscopy / electronic and vibrational spectroscopy / excited state relaxation processes (solute and solvent reorientation)
- Physical Chemistry 1, Bachelor level, 140 hours/year, 2019-ongoing**  
Organized the course. Topics covered chemical thermodynamics, electrochemistry and chemical kinetics.
- Problem Classes **Thermodynamics / Kinetics, Bachelor level, 15 hours/year, 2003/2004/2006/2007**  
Supervising and helping a group of approximately 20 students in solving weekly problem sheets (4 - 5 problems), complementing the lecture course on the given topic. The problems were solved at home, corrected by the supervisor and subsequently discussed in the weekly meeting
- Seminars **Introduction to Magnetic Resonance, Bachelor level, 3-4 hours, 2015**  
Introduction to the basics of EPR and NMR-spectroscopy for the "Spectroscopy" lab-course

### (Post)graduate Supervision

All projects were devised and the students were directly supervised by me. Supervision and teaching consisted of initial individual training on all of the equipment used (steady-state and ultrafast time-resolved optical spectroscopy) and the corresponding data treatment (Matlab-based). During the project, it's progress, arising problems and obtained results were discussed on an almost daily basis in informal individual meetings.

- Internships **Jan Maciejewski, 2013, 1 month**  
"Photophysics of a quadrupolar fluorenone containing 2P-photoinitiator"
- Catia Cardoso, 2013, 1 month**  
"Photophysics of various cycloketone containing 2P-photoinitiators"
- Emilio Acuña, 2017, 1 month**  
"Dynamics and Energetics of Exciplex-forming Model Systems"
- Eric Olson, 2023, 4 months**  
"Determination of the absorbance spectra of 3D printed thin films using an index matching solvent"
- ERASMUS **Kostas Seintis, 2013, 3 months**  
"Photophysics and Dynamics of Two Dendritic Boron Dipyrromethene Arrays"
- MSc Theses **Julien Christmann, 2014, 5 months**  
"Effects of Molecular Symmetry on Photophysical Properties in three Donor-Acceptor Model Systems"

**Christoph Nançoz**, 2014, 5 months

"Driving Force Dependence of Photoinduced Bimolecular Electron Transfer in Apolar Solvents"

**Bekim Hyseni**, 2021, 9 months

"Déconvolution de matrices de spectres d'absorption UV-Vis de complexes d'or et d'argent par PCA et ICA"

PhD Theses **Luis Llanes Montesino**, since 2022

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## International Activities

- 07.2016 **Scientific stay (4 weeks)**, *Polish Academy of Sciences*, Warsaw, PL  
funded by the Swiss National Science Foundation, grant number IZK0Z2.170389
- 10.2015 **Invited workshop participation and scientific stay (2 weeks)**, *Polish Academy of Sciences*, Warsaw, PL  
funded by PhoQuS@UW
- 07.2014 **Invited scientific stay (3 weeks)**, *Polish Academy of Sciences*, Warsaw, PL  
funded by FP7-REGPOT-CT-2011-285949-NOBLESSE
- 11.2013 **Invited scientific stay (2 weeks)**, *Polish Academy of Sciences*, Warsaw, PL  
funded by FP7-REGPOT-CT-2011-285949-NOBLESSE
- 07.2012 **Invited scientific stay (3 weeks)**, *Polish Academy of Sciences*, Warsaw, PL  
funded by FP7-REGPOT-CT-2011-285949-NOBLESSE
- 06.2005 **Scientific stay (4 weeks)**, *International Tomography Center of the Siberian Branch of the Russian Academy of Sciences*, Novosibirsk, RU  
funded by the Österreichischer Austauschdienst (OeAD)
- 02.2005 **Erasmus university teacher mobility (2 weeks)**, *University of Sevilla*, Sevilla, ES
- 02.2004 **Erasmus university teacher mobility (2 weeks)**, *University of Sevilla*, Sevilla, ES

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## Awards

- 2017 Best Poster award (runner-up, co-author), ICP 2017, Strasbourg
- 2014 Best Poster award (6<sup>th</sup> of 100, co-author), Mikrosymposium sprawozdawcze IChF, PAN Warsaw
- 2013 Best Poster award (runner-up, presenting author), SCS fall meeting, Lausanne

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## Services to the Community, University & Memberships

### Referee

Journals >80 since 2010; Publons: [publons.com/a/1582477/](https://publons.com/a/1582477/)

Agencies Polish NCN, Polish Academy of Sciences, Estonian ETIS

### Conferences

- 2014 Geneva Chemistry Days, session chair
- 2012 Reaction Kinetics in Condensed Media 2012 (Łochow, PL), session chair

### University Representation

- 2016–2018 Member of the Commission for External Relations, University of Geneva
- 2001–2003 Elected students' representative in the senate, Graz University of Technology
- 1999–2001 Elected representative of the students' council, Faculty of Chemistry, Graz University of Technology

### Exam Commissions / Opponent

- 2019 Bibliography exam of Martin Magg, University of Geneva (CH)
- 2017 PhD defense of Sophie de Reguardati, Tallinn University of Technology (EE)
- 2017 Bibliography exam of Bogdan Dereka, University of Geneva (CH)

- 2016 Bibliography exam of Oleksander Yushchenko, University of Geneva (CH)  
2016 Bibliography exam of Birte Varnholt, University of Geneva (CH)

### Memberships in Professional Associations

Swiss Chemical Society