



Peter Coburger

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## EDUCATION AND RESEARCH EXPERIENCE

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<b>Since Jan 2023</b> <b>TU Munich</b>	Liebig Junior Research Group Leader <i>“Carbene-substituted heterocycles for sustainable catalysis”</i>
<b>Jun 2020 – Dec 2022</b> <b>ETH Zurich</b>	Postdoctoral researcher in the group of Prof. Hansjörg Grützmacher, Research on main-group biradicaloids
<b>Apr 2019 – May 2020</b> <b>University of Regensburg</b>	Postdoctoral researcher in the group of Prof. Robert Wolf, Computational and experimental investigations on first-row transition-metal complexes
<b>Aug 2016 – Oct 2016</b> <b>University of Regensburg</b>	Research stay at the group of Prof. Robert Wolf (collaboration as part of the PhD project)
<b>Oct 2015 – Apr 2019</b> <b>University of Leipzig</b>	Doctoral project (A carborane-substituted 1,2-Diphosphetane as Building Block for the Development of new Ligands with Potential Application in Homogeneous Catalysis, grade: summa cum laude) under the supervision of Prof. Dr. Dr. h.c. mult. E. Hey-Hawkins, associated member of the Leipzig Graduate School of Natural Sciences – Building with Molecules and Nano-objects (BuildMoNa)
<b>Jul 2014 – Sep 2014 and May 2015 – Jul 2015</b> <b>University of St. Andrews</b>	Research stays as part of the M.Sc. chemistry studies (advanced laboratory course and experimental for the M.Sc. thesis in the group of Dr. Petr Kilian)
<b>Oct 2013 – Sep 2015</b> <b>University of Leipzig</b>	M.Sc. Chemistry (overall grade: 1.3, Masters’s Thesis: Reactivity of rigid Backbone-supported Diphosphanes, grade: 1.0)
<b>Oct 2010 – Sep 2013</b> <b>University of Leipzig</b>	B.Sc. Chemistry (overall grade: 1.4, B.Sc. Thesis: Synthese <i>P</i> -chiraler Phosphansulfide als Vorläufer von Phosphanliganden für die Homogene Katalyse, grade: 1.0))
<b>May 2010</b>	High school degree (Abitur, grade: 1.0)

## TEACHING EXPERIENCE

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<b>April 2012 – Dec 2014</b> <b>University of Leipzig</b>	Tutorials and seminars in Physical Chemistry, Inorganic Chemistry and
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	Organic Chemistry for undergraduate chemistry students (2 <sup>nd</sup> to 4 <sup>th</sup> semester)
<b>Dec 2015 – Dec 2018</b> <b>University of Leipzig</b>	Supervision of several students in advanced laboratory courses in Inorganic and Organometallic Chemistry
<b>Oct 2018 – Mar 2019</b> <b>University of Leipzig</b>	Seminar in General Chemistry for Medicine students
<b>Jun 2019</b> <b>University of Regensburg</b>	Supervision of a laboratory course in analytical chemistry for biologists (first semester students)
<b>Feb 2021</b> <b>ETH Zurich</b>	Supervision of a high school research project

#### **SCHOLARSHIPS AND AWARDS**

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<b>2005 – 2010</b>	Distinctions and Awards in several olympiads (mathematics, physics, chemistry) at school (Federal State level)
<b>2010</b>	Award of the „Gesellschaft Deutscher Chemiker“ for the best high school exams in Chemistry at the Gymnasium Greiz; entry in the honorary book of the grammar school Greiz
<b>2013</b>	Recognition award of the <i>Freundeskreises der Fakultät für Chemie und Mineralogie</i> for the second-best overall mark in the chemistry studies (B. Sc.)
<b>2014</b>	Deutschlandstipendium of the University of Leipzig
<b>2014 – 2015</b>	Fellowship of the Studienstiftung des Deutschen Volkes (chemistry studies)
<b>2016 – 2019</b>	PhD fellowship of the Studienstiftung des Deutschen Volkes

<b>2020</b>	BuildMoNa Award (3rd place) for “Outstanding Scientific Results”
<b>2020 - 2022</b>	Research Fellowship (Postdoc) of the Deutsche Forschungsgemeinschaft
<b>since 2023</b>	Liebig fellowship of the FCI

## ATTENDED CONFERENCES AND SUMMER SCHOOLS

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### Oral Presentations

<b>March 2017</b>	5 <sup>th</sup> Annual Conference of the Graduate School BuildMoNa (ABC), Leipzig, Germany. „ <i>Ortho-Carborane as backbone for the development of hemilabile ligands</i> ”
<b>August 2017</b>	Inorganic Colloquium at Hirschegg, Austria. „ <i>Oxidative Additionsreaktion von carboran-substituierten Diphosphetanen mit Bis(1,5-cyclooctadien)cobaltat(-I)</i> “
<b>March 2018</b>	15 <sup>th</sup> European Workshop on Phosphorus Chemistry (EWPC), Uppsala, Sweden. „ <i>Oxidative P–P Bond Addition to Cobalt(-I)</i> “
<b>March 2018</b>	6 <sup>th</sup> Annual Conference of the Graduate School BuildMoNa (ABC), Leipzig, Germany, Schweden. „ <i>Oxidative P–P Bond Addition to Cobalt(-I)</i> “
<b>September 2018</b>	16 <sup>th</sup> Mitteldeutsches Anorganiker-Nachwuchssymposium (MANS), Jena, Germany. „ <i>Neue Zugänge zu Phosphanliganden mit nido-Carboranrückgrat</i> “
<b>August 2019</b>	Inorganic Colloquium at Hirschegg, Austria. „ <i>Oxidative P-P Bindungsaddition an 3d-Übergangsmetalle</i> “
<b>August 2022</b>	42 <sup>nd</sup> International Conference on Coordination Chemistry (ICCC), Rimini, Italy. „ <i>From Wade-Mingos clusters to Huckel-Aromatics in single-electron transfer steps</i> ”

### **Poster Presentations**

- March 2016** 13<sup>th</sup> European Workshop on Phosphorus Chemistry (EWPC), Berlin, Germany. „*Synthesis of new Bisphosphanes starting from carborane-substituted 1,2-Diphosphetanes*“
- July 2016** 42<sup>nd</sup> International Conference on Coordination Chemistry (ICCC), Brest, France. „*Synthesis of Tetradentate Ligands starting from Carborane-substituted 1,2-Diphosphetanes*“
- July 2017** 22<sup>nd</sup> European Conference on Organometallic Chemistry (EuCOMC), Amsterdam, Netherlands. „*Synthesis and Characterisation of a Homoleptic Cobalt(III)-phosphanido Complex*“
- September 2017** Summer School “Electronic Structure and Spectroscopy of Transition Metal Complexes”, Gelsenkirchen, Germany.
- September 2022** 18<sup>th</sup> European Workshop on Phosphorus Chemistry (EWPC), Rostock, Germany. „*Redox-chemistry of a carbene-stabilised Triphosphinine Dianion*“

### **OUTREACH**

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- April 2022 – Feb 2023** Joint author of the “Blickpunkt Anorganik” for the “Nachrichten aus der Chemie” (monthly issued magazine of the German Chemical Society).
- Oct. 2013 – Oct. 2015** Organisation and supervision of the “Vierländerwettbewerb, Berlin, Brandenburg, Sachsen, Sachsen-Anhalt” (chemical Olympiad for senior high school students).
- since 2013** Member of the “Friends of the Chemical Olympiad” (Förderverein Chemieolympiade, FChO).
- since 2010** Member of the German Chemical Society (Gesellschaft Deutscher Chemiker, GDCh).