Dr. Philipp R. Martin

Curriculum Vitae

Contact Information

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Research Interests

- Mechanistic investigation of transformation & sorption of organic contaminants
- Implications of transformation & sorption reactions for the environmental fate of legacy and emerging organic contaminants
- Development of analytical methods for trace analysis (GC–MS, LC–MS) & compound–specific stable isotope analysis (GC–IRMS, LC–IRMS) of legacy and emerging organic contaminants including (micro–)extraction techniques

Professional Experience

since 08/24 **Postdoctoral researcher**, *University of Vienna*, Vienna, Austria
Division of Environmental Geosciences (EDGE), Centre for Microbiology and Environmental Systems Science

04/22–07/24 **Research assistant**, *Eberhard Karls Universität*, Tübingen, Germany
Environmental Mineralogy & Chemistry, Department of Geosciences

04/18–03/22 **Academic employee**, *Eberhard Karls Universität*, Tübingen, Germany
Environmental Mineralogy & Chemistry, Department of Geosciences

Academic Education

04/18–04/22 **Ph.D. (Dr. rer. nat.) in Environmental Sciences**, *Eberhard Karls Universität*, Tübingen, Germany
Environmental Mineralogy & Chemistry (Prof. Dr. Stefan B. Haderlein), Department of Geosciences in collaboration with Instrumental Analytical Chemistry, University Duisburg–Essen (Prof. Dr. Torsten C. Schmidt)
Thesis title: Manganese–driven oxidation of aminopolyphosphonates studied by compound–specific carbon isotope analysis

10/15–01/18 **M.Sc. Applied & Environmental Geoscience**, *Eberhard Karls Universität*, Tübingen, Germany
Specialization: Environmental Chemistry & Microbiology
Thesis title: Compound–specific isotope analysis of chlorinated phenols – method development and applications (Prof. Dr. Stefan B. Haderlein & Dr. Daniel Buchner)

10/12–09/15 **B.Sc. Umweltnaturwissenschaften (Environmental Sciences)**, *Eberhard Karls Universität*, Tübingen, Germany
Thesis title: Optimierung der substanzspezifischen Chlorisotopenanalytik – Herstellung eines an ^{37}Cl angereicherten PCEs für eine verbesserte Zwei–Punkt–Kalibration (Optimization of compound–specific chlorine isotope analysis – Synthesis of a ^{37}Cl enriched PCE for an optimized two–point calibration, in German) (Prof. Dr. Stefan B. Haderlein & Dr. Daniel Buchner)

Selected publications

1. Röhnelt, A. M., **Martin, P. R.**, Athmer, M., Bieger, S., Buchner, D., Karst, U., Huhn, C., Schmidt, T. C. & Haderlein, S. B. (2025). Glyphosate is a transformation product of a widely used aminopolyphosphonate complexing agent. *Nature Communications*, 16, 2438. https://doi.org/10.1038/s41467-025-57473-7

   Research article

2. **Martin, P. R.**, Buchner, D., Jochmann M. A. & Haderlein, S. B. (2024). Dispersive liquid–liquid microextraction as a novel enrichment approach for compound–specific carbon isotope analysis of chlorinated phenols. *Analytical Methods*, 16, 919–929. https://doi.org/10.1039/D3AY01981K

   Research article

3. Hofstetter, T., Bakkour, R., Buchner, D. Eisenmann, H., Fischer, A., Gehre, M., Haderlein, S. B., Höhener, P. Hunkeler, D., Imfeld, G., Jochmann, M. A., Kümmel, S., **Martin, P. R.**, Pati, S. G., Schmidt, T. C., Vogt, C., Elsner, M. (2024). Perspectives of compound-specific isotope analysis of organic contaminants for assessing environmental fate and managing chemical pollution. *Nature Water*, 2(1), 14–30. https://doi.org/10.1038/s44221-023-00176-4

   Review article

4. **Martin, P. R.**, Buchner, D., Jochmann, M. A., Elsner, M. & Haderlein, S. B. (2022). Two pathways compete in the Mn(II)–catalyzed oxidation of aminotrismethylene phosphonate (ATMP). *Environmental Science & Technology*, 56(7), 4091–4100. https://doi.org/10.1021/acs.est.1c06407

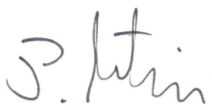
   Research article

5. **Martin, P. R.**, Buchner, D., Jochmann, M. A., & Haderlein, S. B. (2020). Stable carbon isotope analysis of polyphosphonate complexing agents by anion chromatography coupled to isotope ratio mass spectrometry: method development and application. *Analytical and bioanalytical chemistry*, 412(20), 4827–4835. https://doi.org/10.1007/s00216-019-02251-w

   Research article

Memberships

1. German Chemical Society (GDCh), Divisions:
   - German Water Chemistry Society:
     Member in the expert group environmental isotope chemistry
   - Analytical Chemistry
   - Environmental Chemistry and Ecotoxicology
2. European Geosciences Union (EGU)



Vienna, October 17, 2025