



BARDEHLE PAGENBERG Team

Luca Berger
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Patent Engineer

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Luca M. Berger specializes in drafting patent applications and guiding clients through examination proceedings before the European and German Patent Offices. He also handles infringement and validity issues, as well as opposition, appeal, and nullity proceedings.

He gained years of hands-on experience in R&D during his time as a doctoral researcher at Ludwig Maximilian University Munich and as a postdoctoral researcher at the Technical University of Munich. With a strong background in nanotechnology, photonics, optics, laser science, materials science, and (photo-)electrochemistry, he excels at protecting technically complex inventions.

As lead author of several publications in high-impact journals, he has developed a keen ability to identify the essence of complex research and now applies this skill to distilling and communicating the core of an invention. He holds a master's degree in physics from King's College London, which included a year abroad at the University of California, Santa Barbara.



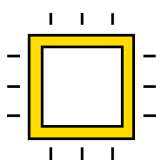
Áreas Legales

Patent Litigation

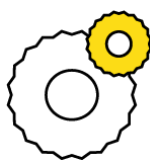
Patent Prosecution

Oppositions and Nullity

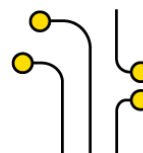
Industrias



Semiconductor Technology



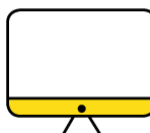
Mechanical Engineering



Electrical Engineering



Medical Devices



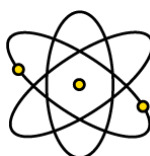
Software, IT & Computer Technology



Telecommunications



Sports



Physics



Automotive



Publications

- Berger, L. M., Barkey, M., Maier, S. A., & Tittl, A. (2024). “Metallic and all-dielectric metasurfaces sustaining displacement-mediated bound states in the continuum.” *Advanced Optical Materials*, 12(5), 2301269.
- Duportal, M., Berger, L. M., Maier, S. A., Tittl, A., & Krischer, K. (2024). “Multi-band metasurface-driven surface-enhanced infrared absorption spectroscopy for improved characterization of in-situ electrochemical reactions.” *ACS photonics*, 11(2), 714-722.
- Berger, L. M., Duportal, M., Menezes, L. D. S., Cortés, E., Maier, S. A., Tittl, A., & Krischer, K. (2023). “Improved In Situ Characterization of Electrochemical Interfaces Using Metasurface-Driven Surface-Enhanced IR Absorption Spectroscopy.” *Advanced Functional Materials*, 33(25), 2300411.



Lectures & Seminars

Luca taught lectures and tutorials on physics, materials science, and optics at the Technical University of Munich and the Ludwig Maximilian University Munich. He has also given talks as an invited speaker at renowned conferences, such as the ISE conference in Mainz in 2025 and the Metamaterials conference in Paris in 2023.



Curriculum Vitae

2025 - Hoy	Patent Engineer at BARDEHLE PAGENBERG, Munich
2025 - Hoy	Studies of law for patent attorneys at the FernUniversität Hagen, Germany
2024 - 2025	Postdoctoral researcher at the Technical University of Munich at the Walter Schottky Institute
2020 - 2023	Doctoral researcher at the Ludwig Maximilian University Munich at the Nano-Institute Munich, financed by e-conversion and graduated Dr. rer. nat. (magna cum laude)
2018 - 2019	Studies at the University of California, Santa Barbara
2016 - 2020	Master's degree in Physics at King's College London (First Class Honours)