

# Pavel Hájek

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Academic CV: p135246.github.io/assets/pdf/cv-academic.pdf

From Prague. Married.

## PROFILE

Passionate about **science** and **technology**. Academic career in **symplectic geometry** and **mathematical physics**. Second career in **programming**.

## JOBS

since Apr 2024: *Full-stack software engineer*, freiheit.com technologies gmbh.  
Oct 2019 – Mar 2024: *Research associate (postdoc)*, University of Hamburg.  
Sep 2020 – Dec 2020: *Research fellow*, Mittag-Leffler Institute.  
Oct 2014 – Sep 2019: *Research associate (graduate student)*, University of Augsburg.

## WORK EXPERIENCE

⚙️ **Programming** – Building from scratch a scalable cloud-based platform scraping and parsing company documents using LLM and computing custom business metrics.  
🔬 **Research** – Chern-Simons theory, string topology, symplectic geometry.  
👨🏫 **Teaching** – Exercise classes, seminars, lecture, opponent on theses.

## EDUCATION

2015–2019: 🎓 *Ph.D. in Mathematics*, University of Augsburg (Magna cum laude).  
2011–2014: *MSc in Theoretical and Mathematical Physics*, LMU Munich (1.2).  
2007–2011: *BSc in Physics*, Charles University in Prag (distinctions).  
2007–2010: *BSc in Mathematics*, Charles University in Prag (high distinctions).

## SKILLS

❄️ **Wolfram Mathematica** – certificate of proficiency, hobby and academic projects (finding trajectories in 3BP, implementation of an IBL algebra on cyclic words).  
⚙️ **Programming** – professionally: *GoLang*, *ReactJS*; hobby: *Java* (gallery maker, plugins), *Lua*, *Haskell*, *Python*; past: *Object Pascal* (triangulations, boolean minimization).  
🐧 **IT** – developer stack: *git*, *docker*, *psql*, *nix*, *terraform*, *Azure dev-ops*; life-long *Linux* user with admin skills, *vim* enthusiast; past: *hobby electronics* (design and manufacture of PCBs, programming of 8-bit microchips Atmel).

## LANGUAGES

🇨🇪 Czech, 🇺🇸 English, 🇩🇪 German – professional working proficiency.

## HOBBIES

🏄 Windsurfing (Windsurfing Club Hamburg)