Irwin HECKER

Analytical mindset | Collaborative work | Active learning | Curiosity

Data Scientist, PhD | Digital Trainer | Science Communicator

If you're interested in collaborating or learning more, please contact me:
contact@irwinhecker.com

Holder of a **Category B driver's license**

Certified in **Mental Health First Aid**

Professional Profiles

IH

Portfolio:
irwinhecker.com

in
linkedin.com/in/ihecker

R^G
Scientific publications:
researchgate.net/
profile/Irwin-Hecker

Languages

English: C1
French: C2
German: B1

Interests

Data & Analytics:
• **Data visualization**
• **Statistical modelling**
• **Open science**
Development & Collaboration:
• **Web development**
• **Open-source contributions**
• **Coding events**
Digital Content:
• **Video, visual, live content**
• **Creation, production, editing**
Entertainment & Culture:
• **Video games**
• **Cinema**
Outdoor Activities:
• **Bouldering**
• **Surfing**

Professional Experience

2025 • Trainer • BECOMTECH • Nantes
- **Led tech workshops (HTML, CSS, JS, prototyping, digital culture) using active learning methods.**
- **Supervised activities related to tech, communication, and self-confidence building.**
- **Participated in a national training program and contributed to an initiative promoting gender diversity in tech.**

From 2021 to 2024 • Data Scientist • Inserm • Paris
- **Coordinated a Work Package of the European RESPOND project aimed at preventing mental health risks during the COVID-19 pandemic.**
- **Developed analytical tools and solutions for international longitudinal data.**
- **Daily communication in English.**

2020 • Research Assistant Intern • Université de Montréal • Montréal/Strasbourg
- **Coordinated data from France and Switzerland for the international COVID-19 database project (COVerAGE-DB) at the Max Planck Institute in Rostock (Germany).**
- **Co-authored and published articles:**
  Riffe, T., Acosta, E., the COVerAGE-DB team. (2021). *Data Resource Profile: COVerAGE-DB: a global demographic database of COVID-19 cases and deaths*. International Journal of Epidemiology, 50(2), 390–390f.
  Hecker I., Pic V., Breton D., Gagnon A. (2020), *Le Grand Est : deuxième région française la plus touchée par l'épidémie de Covid-19* – Insee Analyse, n°115 *en ligne*.

2019 • Analyst Intern • Observatoire Régional de la Santé du Grand Est • Nancy
  Studied maternal and newborn health in the Grand Est region in 2018.

From 2016 to 2018 • Summer / Student Jobs
- **Tutored first-year undergraduate students, distributed flyers, restocked shelves, and worked in agriculture.**

Education

2024 • PhD in Biostatistics/Public Health • Sorbonne Université/Inserm • Paris
- **Completed a PhD thesis:**
  Hecker, I. (2024). Rôle des difficultés économiques et sociales vis-à-vis de la santé mentale au cours de la pandémie de COVID-19. http://www.theses.fr/2024SORUS387
- **Coordinated the merging and valorization of European cohorts related to the COVID-19 period within a shared infrastructure, CoRESPOND, as part of the H2020 RESPOND project.**
- **Completed a research stay at Vrije Universiteit (VU) Amsterdam within the Cross-Cultural and Global Mental Health Research Group.**

2020 • Master's Degree in Demography • With High Honors • Université de Strasbourg • Strasbourg
- **Programming, database processing, statistical analysis, and mapping.**
- **Design of dashboards, decision-support reports, and scientific articles.**

Digital skills

- Data management:
  R, SAS, Access, XL Stats, Apache, PostgreSQL.
- Programming:
  R, Shiny, Python, React, JavaScript, CSS, SQL, VBA.
- Collaboration:
  Git, GitHub, GitLab.
- Data visualization:
  R, Shiny, SAS, Tableau, Excel, PowerBI.
- Cartography:
  R, Shiny, QGIS, Magrit, Philcarto.
- Image editing:
  Illustrator, Krita, Canva.
- Video editing:
  Adobe Premiere Pro, Capcut, OBS.
- Office tools:
  Microsoft Office, Google Workspace
- Statistical methods:
  • Analyses (multivariate, longitudinal, survival, Bayesian, factor, spatial)
  • Propensity score • Multiple imputation • Sampling and weighting