Irwin HECKER

Data Scientist, PhD

If you're interested in collaborating or learning more, please contact me:

irwin.hecker@gmail.com

27 years old

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

2021 to 2024 • Biostatistician • Inserm • Paris
- Coordination of a Work Package within the European project RESPOND, aimed at preventing mental health risks during the COVID-19 pandemic.
- Study of determinants of coping styles and mental distress during the COVID-19 pandemic using longitudinal data (COMET study).
- Daily communication in English.

2020 • Research Intern in Demography • Université de Montréal • Montréal/Strasbourg
- Participation in the international COVID-19 database project (COVerAGE-DB) at the Max Planck Institute in Rostock, Germany. Responsible for data from France and Switzerland.
- Co-authorship and publication of an article in the International Journal of Epidemiology:
  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.
- Co-authorship and publication of a study in collaboration with INSEE Grand Est:
  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 • Research Assistant Intern • Observatoire Régional de la Santé du Grand Est • Nancy
- Study on maternal and new born health in Grand Est in 2018.

2016 to 2018 • Summer/Student Jobs
- First-year undergraduate student tutoring, flyer distribution, shelf stocking, agricultural work.

Education

2024 • PhD in Biostatistics/Public Health • Sorbonne Université/Inserm • Paris
- Completion of a PhD thesis:
  Hecker, I. (2024). Longitudinal study of mental health during COVID-19: economic and social difficulties. http://www.theses.fr/2024SORUS387
- Coordination of the merging and promotion of European cohorts related to COVID-19 within a common infrastructure, CoRESPOND, under the European H2020 RESPOND project.
- Study of the links between professional and financial difficulties and symptoms of anxiety and depression during the COVID-19 pandemic using longitudinal data (TEMPO cohort):
  Hecker, I. et al. (2022). Impact of work arrangements during the COVID-19 pandemic on mental health in France. SSM - Population Health, 20, 101285. https://doi.org/10.1016/j.ssmph.2022.101285
- Study of the links between mental health difficulties and adherence to health measures during the pandemic (CoRESPOND database).
- Conduct of 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 with R and SAS software, database management, statistical work, cartography.

Digital Skills

- Data management:
  R, SAS, SQL, Access, XL Stats.
- Programming:
  R, Shiny, Python, React, JavaScript, CSS, 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