



# Irwin HECKER

## Data Scientist, PhD

### 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, 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.
- Statistical methods:
  - Analyses (multivariate, longitudinal, survival, Bayesian, factor, spatial)
  - Propensity score • Multiple imputation • Sampling and weighting
- Cartography: R, Shiny, QGIS, Magrit, Philcarto.
- Image editing: Illustrator, Krita, Canva.
- Video editing: Adobe Premiere Pro, Capcut, OBS.
- Office tools: Microsoft Office, Google Workspace

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



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Portfolio:

[irwinhecker.com](http://irwinhecker.com)



[linkedin.com/in/ihecker](https://www.linkedin.com/in/ihecker)



Scientific publications: [researchgate.net/profile/Irwin-Hecker](https://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:

- Boulderling
- Surfing