

Marion COSTE

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Current position

IRD postdoctoral research fellow, **SESSTIM** (UMR1252 IRD/Aix-Marseille Univ./INSERM)

- Research project: Equity and efficiency of simplified and decentralized strategies to reduce mortality and morbidity associated with viral hepatitis in sub-Saharan Africa

Research fields

Development economics, health economics, applied micro-econometrics, survey design, extended cost-effectiveness analysis

Education

- 2019-2023 **PhD in Economics**, Aix-Marseille School of Economics (AMSE), **Aix-Marseille University**
- 2020-2022 **DESU « Pedagogy for higher education »**, **Aix-Marseille University**
- 2013-2016 **Master's degree Economics and Public Policy**, Department of Economics, **SciencesPo**
- 2013-2015 **Master's degree in Political Philosophy & Ethics**, **Sorbonne Université**, mention très bien
- 2010-2013 **Dual undergraduate degree in philosophy and social sciences**
- **SciencesPo**, Bachelor, minor in economics
 - **Sorbonne Université**, Bachelor of philosophy, awarded with honors ('mention bien')

Summer schools

- 2022 Brocher Summer Academy "Healthy, Wealthy and Wise: Ethics of Health Valuation" *Geneva*
- 2021 Micro econometrics and public policy evaluation *Paris School of Economics*
- 2020 Summer school on the sustainable development goals *Aix-Marseille University, IRD, AFD*

Study abroad

- 2014-2015 **DePauw University**, Indiana, USA
- Summer 2014 **Loyola University** Chicago, Illinois, USA
- 2012-2013 **Monash University**, Johannesburg, South Africa. Award: best paper, philosophy of war

Research visits

- November 2021 **University of Pennsylvania**, sponsored by [Jennifer Prah](#)
- Sept.-Dec. 2021 **Indiana University**, sponsored by [Kosali Simon](#)

References

Sylvie Boyer
SESSTIM, IRD
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Jennifer J. Prah
University of Pennsylvania
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Patrizia Carrieri
INSERM
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Mohammad Abu-Zaineh
Aix-Marseille School of Economics
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Grants

- 2023 **Mobility grant** to visit the Fann hospital in Dakar (2 000 EUR), *ISSPAM, Aix-Marseille University*
- 2023-2025 **Postdoctoral fellowship**, *Institut de Recherche et de Développement (IRD)*
- 2023-2025 **Postdoctoral research allocation**, *ANRS | Maladies Infectieuses Emergentes (ANRS-MIE)*
- 2019-2022 **PhD grant**, *Aix-Marseille University*
- 2014-2015 **French Language Department Assistant fellowship**, *DePauw University (Indiana, USA)*
- 2014 Summer scholarship, *Loyola University Chicago, IES Abroad*

Job-market paper

A multidimensional study of poverty and health capability in rural Senegal [[Latest version](#)]

Abstract: Addressing the multidimensionality of poverty is a major challenge in resource-limited settings where programs for health promotion often homogeneously target poor households. Following the collection of survey data in rural Senegal, I develop a structural equation model (SEM) to estimate and characterize three dimensions of health capability as conceptualized by Prah: self-reported health, empowerment, and healthcare access. In accounting for the multidimensionality of both poverty and health capability at the individual level, I highlight complex and sometimes contradictory effects. In particular, I provide novel evidence that empowerment, a key component of health capability, is lower in individuals living in resource-rich households, even though these individuals are more likely to report optimal levels in health and access to healthcare. My estimates emphasize a need to design differentiated policy and interventions for overall poverty reduction and health promotion. They also show how to do so through a comprehensive characterization of the socio-demographic and economic variables associated with distinct dimensions of health capability.

Peer-reviewed articles

Journals ranked by HCERES (rank B)

1. Predicting health services utilization using a score of perceived barriers to medical care: evidence from rural Senegal. *BMC Health Services Research*. (2023). [Coste M.](#) & Bousmah MaQ..
2. Prevention and care of hepatitis B in the rural region of Fatick in Senegal: A healthcare workers' perspective using a mixed methods approach. *BMC Health Services Research*. (2019). Djaogol, T., [Coste, M.](#), Marcellin, F., Jaquet, A., Chabrol, F., Giles-Vernick, T., Diallo, A., Carrieri, M. P., & Boyer, S.

Other journals

3. A novel community-based therapeutic education program for reducing alcohol-related harms and stigma in people with alcohol use disorders: A quasi-experimental study (ETHER study). *Drug and alcohol review*. (2023). Barré, T., Ramier, C., Antwerpes, S., Costa, M., Bureau, M., Maradan, G., Di Beo, V., Cutarella, C., Leloutre, J., Riccobono-Soulier, O., Hedoire, S., Frot, E., Vernier, F., Vassas-Goyard, S., Dufort, S., Protopopescu, C., Marcellin, F., Casanova, D., [Coste, M.](#), & Carrieri, P.
4. Applying the health capability profile to empirically study chronic hepatitis B in rural Senegal: A social justice mixed-methods study protocol. *BMJ Open*. (2022). [Coste, M.](#), Badji, M. A., Diallo, A., Mora, M., Boyer, S., & Prah, J. J.
5. Hepatitis B in Senegal: A Successful Infant Vaccination Program but Urgent Need to Scale Up Screening and Treatment (ANRS 12356 AmBASS survey). *Hepatology Communications*. (2022). Périères, L., Diallo, A., Marcellin, F., Nishimwe, M. L., Ba, E. H., [Coste, M.](#), Lo, G., Halfon, P., Touré Kane, C., Maradan, G., Carrieri, P., Diouf, A., Shimakawa, Y., Sokhna, C., Boyer, S., & Group, A. 12356;
6. Evaluation of a novel therapeutic education programme for people with alcohol use disorder in France: A mixed-methods intervention study protocol (ETHER). *Harm Reduction Journal*. (2022). Antwerpes, S., Costa, M., [Coste, M.](#), Bureau, M., Maradan, G., Cutarella, C., Leloutre, J., Riccobono-Soulier, O., Hedoire, S., Frot, E., Vernier, F., Vassas-Goyard, S., Barré, T., Casanova, D., & Carrieri, P.
7. A Community-Based Therapeutic Education Programme for People with Alcohol Use Disorder in France: A Qualitative Study (ETHER). *International Journal of Environmental Research and Public Health*. (2022). Costa, M., Barré, T., Antwerpes, S., [Coste, M.](#), Bureau, M., Ramier, C., Maradan, G., Riccobono-Soulier, O., Vassas-Goyard, S., Casanova, D., & Carrieri, P.
8. Hepatitis B Vaccination in Senegalese Children: Coverage, Timeliness, and Sociodemographic Determinants of Non-Adherence to Immunisation Schedules (ANRS 12356 AmBASS Survey). *Vaccines*. (2021). Périères, L., Marcellin, F., Lo, G., Protopopescu, C., Ba, E. H., [Coste, M.](#), Touré Kane, C., Maradan, G., Diallo, A., Sokhna, C., Boyer, S.
9. Sibling status, home birth, tattoos and stitches are risk factors for chronic hepatitis B virus infection in Senegalese children: A cross-sectional survey. *Journal of Viral Hepatitis*. (2021). Périères, L., Protopopescu, C., Lo, G., Marcellin, F., Ba, E. H., [Coste, M.](#), Touré Kane, C., Diallo, A., Sokhna, C., Boyer, S.
10. Screening and care for alcohol use disorder in France: Expectations, barriers and levers using a mixed-methods approach. *BMC Public Health*. (2020). Costa, M., Barré, T., [Coste, M.](#), Yaya, I., Berenger, C., Tanti, M., Cutarella, C., Mora, M., Poloméni, P., Maynard, M., Teuma, D., Bazin, M., Maradan, G., Roux, P., & Carrieri, P. M.
11. Burden and impacts of chronic hepatitis B infection in rural Senegal: Study protocol of a cross-sectional survey in the area of Niakhar (AmBASS ANRS 12356). *BMJ Open* (2019). [Coste, M.](#), De Sèze, M., Diallo, A., Carrieri, M. P., Marcellin, F., Boyer, S.
12. Untreated alcohol use disorder in people who inject drugs (PWID) in France: A major barrier to HCV treatment uptake (the ANRS-FANTASIO study). *Addiction*. (2019). Barré, T., Marcellin, F., Di Beo, V., Delorme, J., Rojas Rojas, T., Mathurin, P., Protopopescu, C., Bailly, F., [Coste, M.](#), Authier, N., Carrieri, M. P., & Rolland, B.

13. Lower HCV treatment uptake in women who have received opioid agonist therapy before and during the DAA era: The ANRS FANTASIO project. *International Journal of Drug Policy*. (2019). Rojas Rojas, T., Di Beo, V., Delorme, J., Barre, T., Mathurin, P., Protopopescu, C., Bailly, F., **Coste, M.**, Authier, N., Carrieri, M. P., Rolland, B., & Marcellin, F.
14. Access to care for people with alcohol use disorder in France: A mixed-method cross-sectional study protocol (ASIA). *BMJ Open*. (2018). Costa, M., Marcellin, F., **Coste, M.**, Barré, T., Nordmann, S., Mora, M., Maradan, G., Tanti, M., Cutarella, C., Casanova, D., Levy-Bellaiche, S., Polomeni, P., Simon, N., Roux, P., & Carrieri, M.-P.

Book chapter

Coste M. « Garantir l'équité du système de santé français face au choc démographique – Le paradigme des capacités de santé », in Lorenzi, J.-H. dir. *Choc démographique, rebond économique* (Descartes, 2016).

Book

Coste M. *Obamacare, Droit à la santé et justice sociale – Autour de la pensée de Jennifer Prah Ruger*, Editions universitaires européennes, Oct. 2017, 180 p.

Working papers

- Applying the Health Capability Profile: an Analytical Study of Leading Causes of Death in the US and of Pressing Public Health Issues. **Coste M.**, Prah J. *R&R at Journal of Epidemiology and Community Health*.
- Investigating linkage to care following community-based screening for hepatitis B virus in rural Senegal: a mixed methods study. **Coste M.**, Diouf A., Ndong C., Diouf A., Périères L., Nishimwe M., Bureau M., Ndiaye A., Maradan G., Diallo A., Boyer S. *Submitted*.
- **Coste M.** et Bousmah M.-Q. (2022). Validation d'un score d'obstacles perçus à l'accès aux soins en zone rurale au Sénégal pour prédire l'utilisation des services de santé. Document de travail Unissahel n°2, Juillet 2022. Paris: Ceped. <https://doi.org/10.5281/zenodo.6997903>
- **Coste M.** Ndong C., Diallo A., Boyer S. et Prah J. Health capability profile of people living with chronic hepatitis B in rural Senegal: a social justice mixed methods study. *Available upon request*.

Current research projects

- Extended cost-effectiveness analysis of reference care for chronic hepatitis B in Senegal | **Collaborators** : the Sen-B research cohort at the **Fann hospital** in Dakar & **Bern University hospital** (M. Seydi & G. Wanderler)
- Extended cost-effectiveness analysis of a test-and-treat strategy for hepatitis C in Cameroon (the ACCESS+ trial) | **Collaborators** : **Yaoundé University** and the **TransVIHMI lab** at Montpellier University (O. Njoya & C. Laurent)
- Health capability profile and COVID-19: a comparative analysis in the US, Germany, Taiwan and South Korea | **Collaborator** : **Health Equity and Policy Lab** at the **University of Pennsylvania** (J. Prah)
- Economic analysis of an integrated strategy for the prevention of HIV, syphilis and hepatitis B mother-to-child transmission in Burkina Faso and in the Gambia (the TRI-MOM project) | **Collaborators** : **SESSTIM**, **MRC Unit the Gambia** at the **LSHTM** et **Centre Muraz** (S. Boyer –PI, M. Lemoine, A. Guingane)

Conferences & seminars (* for posters)

Panel coordination

« *Generating Capability Measures across Health Conditions, Settings and Populations* » at the **2023 Congress of the International Health Economics Association** (South Africa)

Presentations

2023: Journées de Microéconomie Appliquée (Strasbourg); 'Doctorissimes' conference* (Paris); Welfare & Policy conference (Bordeaux); Congress of the International Health Economics Association (Cape Town, South Africa); Webinar "Capability approach" of the Union of African Population Studies (online); Conference of the Human Development and Capability Association (Sofia, Bulgaria); Colloque Méthodes Mixtes Francophonie* (online); SESSTIM seminar; AMSE PhD seminar.

2022: Human Development and Capability Association (HDCA) conference (Antwerp, Belgium); European Health Economics Association (EuHEA) conference (Oslo, Norway); AFRAVIH conference on HIV and viral hepatitis (Marseille, France); World Bioethics Congress (Basel, Switzerland); International Liver Congress* (London, England); University City London 'Global Health' brown bag seminar (London, England); Empirical Econometric Methods Sessions (AMSE); SanteRcom internal seminar (SESSTIM); AMSE PhD seminar.

2021: Health Policy Workshop (Indiana University, USA); Association of the Southern European Economic Theorists conference (Marseille); BiGSEM doctoral seminar (Bielefeld University, Germany); HDCA Global Dialogue* (online); International Conference in Development Economics* (Bordeaux); AMSE PhD seminar.

2020: Health and Disability Thematic Group - PhD work in progress (online); Human Development and Capability Association Conference (online); AMSE PhD seminar.

Prior to 2020: 2019 Congress on the scientific evaluation of non-pharmacological interventions (iCEPS conference)* (Montpellier); 2019 conference of the French Society of Hepatology* (Marseille); 2015 Symposium on Minoritized Populations in Higher Education: Challenging the Deficit Model (DePauw University, USA).

Teaching activities

Coordinator

- Summer school course “Health economics in practice”, ISSPAM, Aix-Marseille University (2023)

Instructor

- Methodology of econometric and statistical studies (Master 2 seminar), Aix-Marseille School of Economics (2023)
- Introduction to software for data analysis (Master 1 seminar), Sciences Po Aix (2023)

Teaching assistant

- **Aix-Marseille University** (2019-2023): Economic principles (L1 MIASHS, faculty of Sciences), Individual behaviors (L1 MIASHS, Faculty of Economics and Management (FEG)), Macroeconomics (L1 EG, FEG), Statistical approaches to social and economic questions (L1 EG, FEG) (2019-2023)
- **SciencesPo** (2016): Monetary policy (2nd year undergraduate course), Reims campus (2016)
- **DePauw University** (2014-2015): French Language Department Assistant (2014-2015)

Invited lecturer

- **University of Pennsylvania** (April 2022): “Health Capability Applications: an overview”, ‘Health Capability’ graduate seminar, Pr J. Prah.
- **Indiana University** (November 2021): “A comparative perspective: the French and Senegalese healthcare systems », undergraduate class ‘Introduction to the US Healthcare System’, Pr A. Hollingworth,
- **Aix-Marseille University** (March 2019): “Language: the philosopher’s approach”, Faculty of Medical Sciences, Course on ‘Sciences Sociales’ 2nd year speech therapists, Pr P. Le Coz,

Supervision: 3rd year Magistère AMSE Student (May-June 2022)

Membership & Service

- Coordination: HDCA [Health and Disability](#) thematic group; working group “Ethical and methodological challenges associated to the economic evaluation of health policy in Sub-Saharan Africa”
- Expertise: Working group “Hepatitis B test & treat strategies in sub-Saharan Africa” ([ANRS-MIE](#))
- Membership: [Health Equity and Policy Lab](#) (Upenn), [Pan-African Research Council](#) (PASRC)
- Abstract reviewer: AFRAVIH (2024), HDCA (2023), APHA (2022)
- Co-founder of the SESSTIM doctoral meet-ups (2021-2022)

Other research and professional experience

2017-2019 **Project manager**, *Institut National de la Santé et la Recherche Médicale (INSERM)*, Marseille
2016-2017 **Trade & Economic counselor**, *Business France, French Treasury, French Embassy in Laos*, Vientiane, Laos
Summer 2015 **Research assistant** ‘Healthcare financing’, *TDTE research chair*, Paris
January 2013 **Assistant to the project manager**, *NGO AVVAIS*, Kigali, Rwanda

Skills

Languages: French (native), English (fluent), Spanish (upper intermediate)

Professional certificates: General Data Protection Regulation (GDPR), Good Clinical Practice, French Authority on Financial Markets (AMF)

IT: STATA, LaTeX, MPlus, TreeAge

Interests

Free-lance English to French translator, Rugby Union (2011-2020; captain of the SciencesPo varsity team in 2013-2014); **Rock climbing** (since 2021)