

LERU Doctoral Summer School 2-8 July 2023 in Heidelberg

Suggested Reading List

Concepts of intervention science applied to global challenges

Equipping the next generation of scientists with understanding of main concepts and methods of intervention science and applying them to the converging global challenges: climate change, pandemics, and societal injustice





Identification of needs and the art of pitching research

- Stone, D.H. (1980). An approach to the analysis of health care needs and resources. *J Epidemiol Community Health*;34(3):208-11. doi: 10.1136/jech.34.3.208. PMID: 7441143; PMCID: PMC1052079. <https://pubmed.ncbi.nlm.nih.gov/7441143/>
- Volker DL. Needs assessment and resource identification. *Oncol Nurs Forum*. 1991 Jan-Feb;18(1):119-23. PMID: 2003104. <https://pubmed.ncbi.nlm.nih.gov/2003104/>
- EIT Food (2023): Learn how to pitch: <https://startupmanual.eitfood.eu/lesson/learn-how-to-pitch/>
- Bowers, J. (2020). Pitch your research in three minutes: <https://www.hindawi.com/post/pitch-your-research-three-minutes/>

Design research

- Berner-Rodoreda, A., Bärnighausen, T., Kennedy, C., Brinkmann, S., Sarker, M., Wikler, D., Eyal, N., McMahon, S. (2020). From doxastic to epistemic: a typology and critique of qualitative interview styles. *Qualitative Inquiry*; 26(3-4): 291-305. <https://pubmed.ncbi.nlm.nih.gov/32038093/>
- Saldana, J. (2021): *The Coding Manual for Qualitative Researchers*, Fourth Edition, Arizona State University: <https://uk.sagepub.com/en-gb/eur/the-coding-manual-for-qualitative-researchers/book273583>
- Hanington, B., Martin, B. (2019). *Universal Methods of Design, Expanded and Revised: 125 Ways to Research Complex Problems, Develop Innovative Ideas, and Design Effective Solutions* (Rockport Universal): <https://www.amazon.de/-/en/Bruce-Hanington/dp/1631597485>

Quasi-experimental causal impact evaluation

- Bärnighausen, T., Grimshaw, J., Tugwell, P., Vollmer S., Lavis J., Brown A., Atun R., Daniels K., Rashidian A., Valentine J., Gaarder M., Tanner J., Akl E., Barreto M. (2015). Quasi-experimental study designs series – paper 4: uses and values. *Journal of Clinical Epidemiology*; 89: 21-29. <https://pubmed.ncbi.nlm.nih.gov/28365303/>
- Bor J., Moscoe E., Mutevedzi P., Newell M., Bärnighausen T. (2014). Regression discontinuity designs in epidemiology: causal inference without randomized trials. *Epidemiology*; 25(5): 729-737. <https://pubmed.ncbi.nlm.nih.gov/25061922/>
- Moscoe E., Bor J., Bärnighausen T. (2015). Regression discontinuity designs in medicine, epidemiology, and public health: a review of current and best practice. *Journal of Clinical Epidemiology*; 68(2): 122-133. <https://pubmed.ncbi.nlm.nih.gov/25579639/>



Social entrepreneurship, sustainability and climate change:

- Teufel F., Geldsetzer P., Sudharsanan N., Subramanyam M., Yapa M., De Neve J., Vollmer S., Bärnighausen T. (2021). The effect of bearing and rearing a child on blood pressure: A nationally representative instrumental variable analysis of 444,611 mothers in India. *International Journal of Epidemiology*; 50(5): 1671-1683. <https://pubmed.ncbi.nlm.nih.gov/34293139/>
- Morgan, S., & Winship, C. (2014). *Counterfactuals and Causal Inference: Methods and Principles for Social Research* (2nd ed., Analytical Methods for Social Research). Cambridge: Cambridge University Press. doi:10.1017/CB09781107587991. <https://doi.org/10.1017/CB09781107587991>
- Frölich, M., Sperlich S. (2019). *Impact Evaluation: Treatment Effects and Causal Analysis*, Cambridge University Press. ISBN-13: 978-1107616066: <https://archive-ouverte.unige.ch/unige:124671>

Implementation science and mixed-methods performance evaluation

- Grol, R. Personal paper. Beliefs and evidence in changing clinical practice. *BMJ*. 1997 Aug 16;315(7105):418-21. doi: 10.1136/bmj.315.7105.418. PMID: 9277610; PMCID: PMC2127297. doi: 10.1136/bmj.315.7105.418; <https://doi.org/10.1136%2Fbmj.315.7105.418>
- Wensing, M. Implementation science in healthcare: Introduction and perspective. *Z Evid Fortbild Qual Gesundhwes*. 2015;109(2):97-102. doi: 10.1016/j.zefq.2015.02.014. Epub 2015 Apr 15. PMID: 26028446. DOI: 10.1016/j.zefq.2015.02.014; <https://doi.org/10.1016/j.zefq.2015.02.014>
- Lawrence, M. G., Williams, S., Nanz, P., Renn, O. (2022) Characteristics, potentials, and challenges of transdisciplinary research, *One Earth*, Volume 5, Issue 1, Pages 44-61, ISSN 2590-3322, <https://www.sciencedirect.com/science/article/pii/S2590332221007284>
- Guyatt, G. H., Oxman, A. D., Vist, G. E., Kunz, R., Falck-Ytter, Y., Alonso-Coello, P., Schünemann, H. J. (2008). GRADE Working Group. GRADE: an emerging consensus on rating quality of evidence and strength of recommendations. *BMJ*; 336(7650):924-6. DOI: 10.1136/bmj.39489.470347.AD; <https://pubmed.ncbi.nlm.nih.gov/18436948/>
- Alonso-Coello, P., Schünemann, H. J., Moberg, J., Brignardello-Petersen, R., Akl, E. A., Davoli, M., Treweek, S., Mustafa, R. A., Rada, G., Rosenbaum, S., Morelli A., Guyatt, G. H., Oxman, A. D.; GRADE Working Group. GRADE Evidence to Decision (EtD) frameworks: a systematic and transparent approach to making well informed healthcare choices. 1: Introduction. *BMJ*. 2016 Jun 28;353:i2016. doi: 10.1136/bmj.i2016. PMID: 27353417. DOI: 10.1136/bmj.i2016; <https://pubmed.ncbi.nlm.nih.gov/27353417/>
- Alonso-Coello, P., Oxman, A. D., Moberg, J., Brignardello-Petersen, R., Akl, E.A., Davoli, M., Treweek, S., Mustafa, R. A., Vandvik, P. O., Meerpohl, J., Guyatt, G. H., Schünemann, H. J.; GRADE Working Group. GRADE Evidence to Decision (EtD) frameworks: a systematic and transparent approach to making well informed healthcare choices. 2: Clinical practice guidelines. *BMJ*. 2016 Jun 30; 353:i2089; DOI: 10.1136/bmj.i2089. <https://pubmed.ncbi.nlm.nih.gov/27365494/>



Economic evaluation of interventions

- Mosadeghrad, A. M., Jaafariipooyan, E., Zamandi, M. (2022). Economic Evaluation of Health Interventions: A Critical Review. *Iran J Public Health* ;51(10):2159-2170. doi: 10.18502/ijph.v51i10.10975. PMID: 36415803; PMCID: PMC9647621. <https://pubmed.ncbi.nlm.nih.gov/36415803/>
- Hoomans, T., Severens, J.L. Economic evaluation of implementation strategies in health care. *Implementation Sci* 9, 168 (2014). <https://doi.org/10.1186/s13012-014-0168-y>

Entrepreneurship, sustainability and climate change

- Orru H., Ebi K. L., Forsberg B. The Interplay of Climate Change and Air Pollution on Health. (2017). *Curr Environ Health Rep*;4(4):504-513. doi: 10.1007/s40572-017-0168-6. PMID: 29080073; PMCID: PMC5676805. <https://pubmed.ncbi.nlm.nih.gov/29080073/>
- Sánchez, J. C. (2011). Entrepreneurship: introduction. *Psicothema*;23(3):424-6. PMID: 21774895. <https://pubmed.ncbi.nlm.nih.gov/21774895/>
- Zhang, X., Sun, Y., Gao, Y., Dong, Y (2022). Paths out of poverty: Social entrepreneurship and sustainable development. *Front Psychol*; 13:1062669. doi: 10.3389/fpsyg.2022.1062669. PMID: 36533010; PMCID: PMC9748285. <https://pubmed.ncbi.nlm.nih.gov/36533010/>
- Green, R., Scheelbeek, P., Bentham, J., Cuevas, S., Smith, P., Dangour, A. D. (2022). Growing health: global linkages between patterns of food supply, sustainability, and vulnerability to climate change. *Lancet Planet Health*; 6(11):e901-e908. doi: 10.1016/S2542-5196(22)00223-6. PMID: 36370728. <https://pubmed.ncbi.nlm.nih.gov/36370728/>

Health Behaviour Change:

- Currie, C. C., Walburn, J., Hackett, K., McCabe, R., Sniehotta, F. F., O'Keeffe, S., Beerlage-de Jong, N., & Araújo-Soares, V. (2022). 8.07 - Intervention Development for Health Behavior Change: Integrating Evidence and the Perspectives of Users and Stakeholders. In G. J. G. Asmundson (Ed.), *Comprehensive Clinical Psychology* (Second Edition) (pp. 118-148). Elsevier. <https://doi.org/10.1016/B978-0-12-818697-8.00177-1>
- Chevance, G., Fresán, U., Hekler, E., Edmondson, D., Lloyd, S. J., Ballester, J., Litt, J., Cvijano-vic, I., Araújo-Soares, V., & Bernard, P. (2022). Thinking Health-related Behaviors in a Climate Change Context: A Narrative Review. *Annals of Behavioral Medicine: A Publication of the Society of Behavioral Medicine*, kaac039. <https://doi.org/10.1093/abm/kaac039>

