Topic 4: Statistical Mediation with Dr. Chris Wikle

McGuigan, K., & Langholtz, B. (1988). A note on testing mediation paths using ordinary least-squares regression. *Unpublished note*, 144-158.

IPCC, 2013: Summary for Policymakers. In: Climate Change 2013: The Physical Science Basis. Contribution of Working Group I to the Fifth Assessment Report of the Intergovernmental Panel on Climate Change [Stocker, T.F., D. Qin, G.-K. Plattner, M. Tignor, S.K. Allen, J. Boschung, A. Nauels, Y. Xia, V. Bex and P.M. Midgley (eds.)]. Cambridge University Press, Cambridge, United Kingdom and New York, NY, USA.

Judd, C. M., & Kenny, D. A. (1981). Process analysis: Estimating Mediation in Treatment Evaluations. *Evaluation Review*, *5*(5), 602–619. https://doi.org/10.1177/0193841X8100500502

Emanuel, K. A. (1988). The Maximum Intensity of Hurricanes. *Journal of the Atmospheric Sciences*, *45*(7), 1143–1155. https://doi.org/10.1175/1520-0469(1988)045<1143:TMIOH>2.0.CO;2

Freedman, L. S., & Schatzkin, A. (1992). Sample size for studying intermediate endpoints within intervention trials or observational studies. *American Journal of Epidemiology*, *136*(9), 1148–1159. https://doi.org/10.1093/oxfordjournals.aje.a116581

Olkin, I., & Finn, J. D. (1995). Correlations Redux. *Psychological Bulletin*, *118*(1), 155–164. https://doi.org/10.1037/0033-2909.118.1.155

Zhang, X., Zwiers, F. W., Hegerl, G. C., Lambert, F. H., Gillett, N. P., Solomon, S., Stott, P. A., & Nozawa, T. (2007). Detection of human influence on twentieth-century precipitation trends. *Nature*, *448*(7152), 461–465. https://doi.org/10.1038/nature06025

Preacher, K. J., & Hayes, A. F. (2008). Asymptotic and resampling strategies for assessing and comparing indirect effects in multiple mediator models. *Behavior Research Methods*, *40*(3), 879–891. https://doi.org/10.3758/BRM.40.3.879

Mcmaster, M. L., Kristinsson, S. Y., Turesson, I., Bjorkholm, M., & Landgren, O. (2010). A comparison of methods to test mediation and other intervening variable effects. *Psychol Methods*, *7*(1), 19–22.

Imai, K., Keele, L., & Tingley, D. (2010). A General Approach to Causal Mediation Analysis. *Psychological Methods*, *15*(4), 309–334. https://doi.org/10.1037/a0020761

Imai, K., Keele, L., & Yamamoto, T. (2010). Identification, inference and sensitivity analysis for causal mediation effects. *Statistical Science*, *25*(1), 51–71. https://doi.org/10.1214/10-STS321

Strobl, C. (2010). Advances in Social Science Research Using R . In *Journal of Statistical Software* (Vol. 34, Issue Book Review 2). https://doi.org/10.18637/jss.v034.b02

Elliott, M. R., Raghunathan, T. E., & Li, Y. (2010). Bayesian inference for causal mediation effects using principal stratification with dichotomous mediators and outcomes. *Biostatistics*, *11*(2), 353–372. https://doi.org/10.1093/biostatistics/kxp060

Seager, R., & Naik, N. (2012). A mechanisms-based approach to detecting recent anthropogenic hydroclimate change. *Journal of Climate*, *25*(1), 236–261. https://doi.org/10.1175/JCLI-D-11-00056.1

Canty, T., Mascioli, N. R., Smarte, M. D., & Salawitch, R. J. (2013). An empirical model of global climate-Part 1: A critical evaluation of volcanic cooling. *Atmospheric Chemistry and Physics*, *13*(8), 3997–4031. https://doi.org/10.5194/acp-13-3997-2013

Tingley, D., Yamamoto, T., Hirose, K., Keele, L., & Imai, K. (2014). Mediation: R package for causal mediation analysis. *Journal of Statistical Software*, *59*(5), 1–38. https://doi.org/10.18637/jss.v059.i05

National Academy of Sciences, & Tilley, E. (2016). Attribution of Extreme Weather Events in the Context of Climate Change. In *Attribution of Extreme Weather Events in the Context of Climate Change*. https://doi.org/10.17226/21852

Knutson, T. R., Zhang, R., & Horowitz, L. W. (2016). Prospects for a prolonged slowdown in global warming in the early 21st century. *Nature Communications*, *7*. https://doi.org/10.1038/ncomms13676

Pieters, R. (2017). Meaningful mediation analysis: Plausible causal inference and informative communication. *Journal of Consumer Research*, *44*(3), 692–716. https://doi.org/10.1093/jcr/ucx081

Zhai, P., Zhou, B., & Chen, Y. (2018). A Review of Climate Change Attribution Studies. *Journal of Meteorological Research*, *32*(5), 671–692. https://doi.org/10.1007/s13351-018-8041-6

Balaguru, K., Foltz, G. R., Leung, L. R., Hagos, S. M., & Judi, D. R. (2018). On the use of ocean dynamic temperature for hurricane intensity forecasting. *Weather and Forecasting*, *33*(2), 411–418. https://doi.org/10.1175/waf-d-17-0143.1

Miočević, M., Gonzalez, O., Valente, M. J., & MacKinnon, D. P. (2018). A Tutorial in Bayesian Potential Outcomes Mediation Analysis. *Structural Equation Modeling*, *25*(1), 121–136. https://doi.org/10.1080/10705511.2017.1342541

Hale, S. E., & Ojeda, T. (2018). Acceptable femininity? Gay male misogyny and the policing of queer femininities. *European Journal of Women’s Studies*, *25*(3), 310–324. https://doi.org/10.1177/1350506818764762

Wan, H., Zhang, X., & Zwiers, F. (2019). Human influence on Canadian temperatures. *Climate Dynamics*, *52*(1–2), 479–494. https://doi.org/10.1007/s00382-018-4145-z

IPCC. (2019). Foreword Technical and Preface. In *Climate Change and Land: an IPCC special report on climate change, desertification, land degradation, sustainable land management, food security, and greenhouse gas fluxes in terrestrial ecosystems*.

Kim, C., Daniels, M. J., Hogan, J. W., Choirat, C., & Zigler, C. M. (2019). Bayesian methods for multiple mediators: Relating principal stratification and causal mediation in the analysis of power plant emission controls. *The Annals of Applied Statistics*, *13*(3), 139–148. https://doi.org/10.1214/19-AOAS1260

McCandless, L. C., & Somers, J. M. (2019). Bayesian sensitivity analysis for unmeasured confounding in causal mediation analysis. *Statistical Methods in Medical Research*, *28*(2), 515–531. https://doi.org/10.1177/0962280217729844

Reed, K. A., Stansfield, A. M., Wehner, M. F., & Zarzycki, C. M. (2020). Forecasted attribution of the human influence on Hurricane Florence. *Science Advances*, *6*(1), 1–9. https://doi.org/10.1126/sciadv.aaw9253

Physical, T., & Basis, S. (2021). Climate Change 2021—The Physical Science Basis. In *Chemistry International* (Vol. 43, Issue 4). https://doi.org/10.1515/ci-2021-0407

Reed, K. A., Wehner, M. F., Stansfield, A. M., & Zarzycki, C. M. (2021). Anthropogenic influence on Hurricane Dorian’s extreme rainfall. *Bulletin of the American Meteorological Society*, *102*(1), S9–S15. https://doi.org/10.1175/BAMS-D-20-0160.1

Magnan, A. K., Pörtner, H. O., Duvat, V. K. E., Garschagen, M., Guinder, V. A., Zommers, Z., Hoegh-Guldberg, O., & Gattuso, J. P. (2021). Estimating the global risk of anthropogenic climate change. *Nature Climate Change*, *11*(10), 879–885. https://doi.org/10.1038/s41558-021-01156-w

Reed, K. A., Wehner, M. F., & Zarzycki, C. M. (2022). Attribution of 2020 hurricane season extreme rainfall to human-induced climate change. *Nature Communications*, *13*(1), 1–6. https://doi.org/10.1038/s41467-022-29379-1