

Seminar dates and topics		
Date	Topics	Required reading
3 September 2024	<ul style="list-style-type: none"> <li>• Introduction and expectations</li> <li>• Foundations of CSS</li> <li>• Getting started in R</li> </ul>	
11 September 2024	<ul style="list-style-type: none"> <li>• Foundations of CSS</li> <li>• The R tidyverse</li> </ul>	Lazer, D., & Radford, J. (2017). Data ex Machina: Introduction to Big Data. <i>Annual Review of Sociology</i> , 43(1), 19–39. <a href="#">↗</a>
18 September 2024 (Block: 15:30 - 18:45)	<ul style="list-style-type: none"> <li>• Research ethics in CSS</li> <li>• Data visualization</li> </ul>	<p>Fiesler, C., &amp; Proferes, N. (2018). ‘Participant’ Perceptions of Twitter Research Ethics. <i>Social Media + Society</i>, 4(1). <a href="#">↗</a></p> <p>Freelon, D. (2018). Computational Research in the Post-API Age. <i>Political Communication</i>, 35(4), 665–668. <a href="#">↗</a></p>
2 October 2024	<ul style="list-style-type: none"> <li>• Social media, web data and web scraping</li> <li>• APIs and web data collection</li> </ul>	<p>Tromble, R. (2021). Where Have All the Data Gone? A Critical Reflection on Academic Digital Research in the Post-API Age. <i>Social Media + Society</i>, 7(1). <a href="#">↗</a></p> <p>RatSWD (2019): Big data in social, behavioural, and economic sciences. <i>RatSWD Output</i> 4(6). <a href="#">↗</a></p>
9 October 2024	<ul style="list-style-type: none"> <li>• Linked surveys and DBD</li> <li>• Web tracking data</li> <li>• Smartphone-based data collection</li> </ul>	<p>Guess, A. M., Barberá, P., Munzert, S., &amp; Yang, J. (2021). The consequences of online partisan media. <i>PNAS</i>, 118(14). <a href="#">↗</a></p> <p>Silber, H., et al. Linking Surveys and Digital Trace Data: Insights From two Studies on Determinants of Data Sharing Behaviour. <i>Journal of the Royal Statistical Society Series A: Statistics in Society</i>, 185(S2), S387–S407. <a href="#">↗</a></p>
16 October 2024	<ul style="list-style-type: none"> <li>• Introduction to automated text analysis</li> <li>• Supervised and unsupervised models</li> <li>• Validation of model results</li> </ul>	<p>Schwemmer, C., &amp; Wieczorek, O. (2020). The Methodological Divide of Sociology: Evidence from Two Decades of Journal Publications. <i>Sociology</i>, 54(1), 3–21. <a href="#">↗</a></p> <p>Bonikowski, B., Luo, Y., &amp; Stuhler, O. (2022). Politics as Usual? Measuring Populism, Nationalism, and Authoritarianism in U.S. Presidential Campaigns (1952–2020) with Neural Language Models. <i>Sociological Methods &amp; Research</i>, 51(4), 1721–1787. <a href="#">↗</a></p>

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23 October 2024	<ul style="list-style-type: none"> <li>Machine learning</li> <li>Large Language Models</li> </ul>	<p>Gilardi, F., Alizadeh, M., &amp; Kubli, M. (2023). ChatGPT outperforms crowd workers for text-annotation tasks. <i>PNAS</i>, 120(30). <a href="#">↗</a></p> <p>Reiss, M. V. (2023). Testing the Reliability of ChatGPT for Text Annotation and Classification: A Cautionary Remark. <i>arXiv Preprint</i>. <a href="#">↗</a></p>
30 October 2024	<ul style="list-style-type: none"> <li>Data quality and validation in CSS</li> <li>Network analysis</li> </ul>	<p>Sen, I., Flöck, F., Weller, K., Weiß, B., &amp; Wagner, C. (2021). A Total Error Framework for Digital Traces of Human Behavior on Online Platforms. <i>Public Opinion Quarterly</i>, 85(S1), 399–422. <a href="#">↗</a></p> <p>Dahlke, R., Kumar, D., Durumeric, Z., &amp; Hancock, J. T. (2023). Quantifying the Systematic Bias in the Accessibility and Inaccessibility of Web Scraping Content From URL-Logged Web-Browsing Digital Trace Data. <i>Social Science Computer Review</i>. <a href="#">↗</a></p>
6 November 2024	<ul style="list-style-type: none"> <li>Open science and reproducibility in CSS</li> </ul>	<p>Chan, C.- Hong, Schatto-Eckrodt, T., &amp; Gruber, J. (2024). What makes computational communication science (ir)reproducible? <i>Computational Communication Research</i>, 6(1). <a href="#">↗</a></p> <p>Nyhan, B., Settle, J., Thorson, E., Wojcieszak, M., Barberá, P., et al. (2023). Like-minded sources on Facebook are prevalent but not polarizing. <i>Nature</i>, 620(7972), 137–144. <a href="#">↗</a></p>
13 November 2024	<ul style="list-style-type: none"> <li>Writing reproducible research papers in R</li> <li>R Markdown, quarto</li> </ul>	<p>Bauer, P. C., &amp; Landesvatter, C. (2023). Writing a reproducible paper with RStudio and Quarto. <i>OSF Preprint</i>. <a href="#">↗</a></p>
20 November 2024	<ul style="list-style-type: none"> <li>Presentations of thesis ideas</li> <li>Coding: troubleshooting</li> </ul>	
27 November 2024	<ul style="list-style-type: none"> <li>Presentations of thesis ideas</li> <li>Coding: troubleshooting</li> </ul>	
4 December 2024	<ul style="list-style-type: none"> <li>Presentations of thesis ideas</li> <li>Coding: troubleshooting</li> </ul>	