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Digital campaign competence

The role of citizens in data-driven election campaigns

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Chapter 9

References

- 56 % of EU people have basic digital skills. (2023, December 15). <https://ec.europa.eu/eurostat/web/products-eurostat-news/w/ddn-20231215-3>
- Aagaard, P., & Marthedal, S. (2023). Political microtargeting: Towards a pragmatic approach. *Internet Policy Review*, 12(1). <https://doi.org/10.14763/2023.1.1690>
- Althaus, S. L. (2003). *Collective preferences in democratic politics: Opinion surveys and the will of the people*. Cambridge University Press.
- Anstead, N. (2017). Data-Driven Campaigning in the 2015 United Kingdom General Election. *The International Journal of Press/Politics*, 22(3), 294–313. <https://doi.org/10.1177/1940161217706163>
- Anstead, N. (2018). Data and Election Campaigning. *Political Insight*, 9(2), 32–35. <https://doi.org/10.1177/2041905818779333>
- Baker, C. E. (2001). *Media, markets, and democracy*. Cambridge University Press.
- Baldwin-Philippi, J. (2017). The Myths of Data-Driven Campaigning. *Political Communication*, 34(4), 627–633. <https://doi.org/10.1080/10584609.2017.1372999>
- Baldwin-Philippi, J. (2019). Data campaigning: Between empirics and assumptions. *Internet Policy Review*, 8(4). <https://doi.org/10.14763/2019.4.1437>
- Balkin, J. M. (2004). Digital Speech and Democratic Culture: A Theory of Freedom of Expression for the Information Society. *New York University Law Review*, 79.
- Barabas, J., Jerit, J., Pollock, W., & Rainey, C. (2014). The Question(s) of Political Knowledge. *American Political Science Review*, 108(4), 840–855. <https://doi.org/10.1017/S0003055414000392>
- Barclay, A., Gibson, R., & Dommert, K. (2023). The regulatory ecosystem of data driven campaigning in the UK. *Frontiers in Political Science*, 5, 1146470. <https://doi.org/10.3389/fpos.2023.1146470>
- Barocas, S. (2012). The price of precision: Voter microtargeting and its potential harms to the democratic process. *Proceedings of the First Edition Workshop on Politics, Elections and Data*, 31–36. <https://doi.org/10.1145/2389661.2389671>
- Barrett, B., Dommert, K., & Kreiss, D. (2021). The capricious relationship between technology and democracy: Analyzing public policy discussions in the UK and US. *Policy & Internet*, poi3.266. <https://doi.org/10.1002/poi3.266>
- Bashyakarla, V., Hankey, S., Macintyre, A., Rennó, R., & Wright, G. (2019). *Personal Data: Political Persuasion. Inside the influence industry. How it works*. Tactical Tech. tacticaltech.org/projects/data-politics
- Bayer, J. (2020). Double harm to voters: Data-driven micro-targeting and democratic public discourse. *Internet Policy Review*, 9(1). <https://doi.org/10.14763/2020.1.1460>
- Bazail-Eimil, E. (2024, January 1). The global elections Washington should be watching in 2024. *Politico*. <https://www.politico.com/news/2024/01/01/what-to-watch-global-elections-2024-00133027>
- Bene, M., & Kruschinski, S. (2021). Political Advertising on Facebook. In J. Haßler, M. Magin, U. Russmann, & V. Fenoll (Eds.), *Campaigning on Facebook in the 2019 European Parliament Election* (pp. 283–299). Palgrave Macmillan. https://doi.org/10.1007/978-3-030-73851-8_18
- Bennett, C. J. (2016). Voter databases, micro-targeting, and data protection law: Can political parties campaign in Europe as they do in North America? *International Data Privacy Law*, 6(4), 261–275. <https://doi.org/10.1093/idpl/ipw021>
- Bennett, C., & Lyon, D. (2019). Data-driven elections: Implications and challenges for democratic societies. *Internet Policy Review*, 8(4). <https://doi.org/10.14763/2019.4.1433>
- Bennett, C., & Oduro Marfo, S. (2019). Privacy, Voter Surveillance and Democratic Engagement: Challenges for Data Protection Authorities. *SSRN Electronic Journal*. <https://doi.org/10.2139/ssrn.3517889>

- Bergmann, M., & Barth, A. (2018). What was I thinking? A theoretical framework for analysing panel conditioning in attitudes and (response) behaviour. *International Journal of Social Research Methodology*, 21(3), 333–345. <https://doi.org/10.1080/13645579.2017.1399622>
- Bhuiyan, J. (2023, May 16). OpenAI CEO calls for laws to mitigate “risks of increasingly powerful” AI. *The Guardian*. <https://www.theguardian.com/technology/2023/may/16/ceo-openai-chatgpt-ai-tech-regulations>
- Bodó, B., Helberger, N., & De Vreese, C. H. (2017). Political micro-targeting: A Manchurian candidate or just a dark horse? *Internet Policy Review*, 6(4). <https://doi.org/10.14763/2017.4.776>
- Boerman, S. C., Kruikemeier, S., & Zuiderveen Borgesius, F. J. (2017). Online Behavioral Advertising: A Literature Review and Research Agenda. *Journal of Advertising*, 46(3), 363–376. <https://doi.org/10.1080/00913367.2017.1339368>
- Boerman, S. C., & van Reijmersdal, E. A. (2016). Informing Consumers about “Hidden” Advertising: A Literature Review of the Effects of Disclosing Sponsored Content. In P. De Pelsmacker (Ed.), *Advertising in New Formats and Media* (pp. 115–146). Emerald Group Publishing Limited. <https://doi.org/10.1108/978-1-78560-313-620151005>
- Boerman, S. C., van Reijmersdal, E. A., & Neijens, P. C. (2012). Sponsorship Disclosure: Effects of Duration on Persuasion Knowledge and Brand Responses: Sponsorship Disclosure. *Journal of Communication*, 62(6), 1047–1064. <https://doi.org/10.1111/j.1460-2466.2012.01677.x>
- Boerman, S. C., van Reijmersdal, E. A., Rozendaal, E., & Dima, A. L. (2018). Development of the Persuasion Knowledge Scales of Sponsored Content (PKS-SC). *International Journal of Advertising*, 37(5), 671–697. <https://doi.org/10.1080/02650487.2018.1470485>
- Bradshaw, S., & Howard, P. N. (2018). The Global Organization of Social Media Disinformation Campaigns. *Journal of International Affairs*, 75(1.5), 23–32. <https://doi.org/26508115>
- Bryman, A. (2012). *Social research methods* (4. ed). Oxford University Press.
- Butler, P., & Collins, N. (1994). Political Marketing: Structure and Process. *European Journal of Marketing*, 28(1), 19–34. <https://doi.org/10.1108/03090569410049154>
- Cadwalladr, C. (2017, May 7). *The Great British Brexit robbery: How our democracy was hijacked*. <https://www.theguardian.com/technology/2017/may/07/the-great-british-brexite-robbery-hijacked-democracy>
- Cadwalladr, C. (2018, March 18). I Made Steve Bannon's Psychological Warfare Tool: Meet the Data War Whistleblower. *The Guardian*. <https://www.theguardian.com/news/2018/mar/17/data-war-whistleblower-christopher-wylie-facebook-nix-bannon-trump>
- Campbell, S. W., & Kwak, N. (2010). Mobile Communication and Civic Life: Linking Patterns of Use to Civic and Political Engagement. *Journal of Communication*, 60(3), 536–555. <https://doi.org/10.1111/j.1460-2466.2010.01496.x>
- Carpini, M. X. D., & Keeter, S. (1996). *What Americans know about politics and why it matters*. Yale University Press.
- Cassel, C. A., & Lo, C. C. (1997). Theories of Political Literacy. *Political Behavior*, 19(4), 317–355. <https://doi.org/10.1023/A:1024895721905>
- Castells, M. (2009). *Communication power*. Oxford University Press.
- Chadwick, A. (2009). Web 2.0: New Challenges for the Study of E-Democracy in an Era of Informational Exuberance. *A Journal of Law and Policy for the Information Society*, 5(1), 9–41.
- Chadwick, A. (2013). *The Hybrid Media System: Politics and Power*. Oxford University Press.
- Chadwick, A., & Stromer-Galley, J. (2016). Digital Media, Power, and Democracy in Parties and Election Campaigns: Party Decline or Party Renewal? *The International Journal of Press/Politics*, 21(3), 283–293. <https://doi.org/10.1177/1940161216646731>

- Chu, X., Otto, L., Vliegenthart, R., Lecheler, S., De Vreese, C., & Kruikeimeier, S. (2023). On or off topic? Understanding the effects of issue-related political targeted ads. *Information, Communication & Society*, 1–27. <https://doi.org/10.1080/1369118X.2023.2265978>
- Chu, X., Vliegenthart, R., Otto, L., Lecheler, S., De Vreese, C., & Kruikeimeier, S. (2024). Do Online Ads Sway Voters? Understanding the Persuasiveness of Online Political Ads. *Political Communication*, 41(2), 290–314. <https://doi.org/10.1080/10584609.2023.2276104>
- Civic Engagement. (n.d.). OECD Better Life Index. Retrieved August 2, 2024, from <https://www.oecdbetterlifeindex.org/topics/civic-engagement/>
- Commission welcomes political agreement on transparency of political advertising regulation. (2023). European Commission. <https://www.consilium.europa.eu/en/press/press-releases/2023/11/07/transparency-and-targeting-of-political-advertising-eu-co-legislators-strike-deal-on-new-regulation/>
- Converse, P. (1964). The Nature of Mass Beliefs in Mass Publics. In D. E. Apter (Ed.), *Ideology and Discontent* (pp. 206–261). Free Press.
- Coppock, A., Hill, S. J., & Vavreck, L. (2020). The small effects of political advertising are small regardless of context, message, sender, or receiver: Evidence from 59 real-time randomized experiments. *Science Advances*, 6(36). <https://doi.org/10.1126/sciadv.abc4046>
- Cramer, K. J., & Toff, B. (2017). The Fact of Experience: Rethinking Political Knowledge and Civic Competence. *Perspectives on Politics*, 15(3), 754–770. <https://doi.org/10.1017/S1537592717000949>
- Crozier, M. J., Huntington, S. P., & Watanuki, J. (1975). *The Crisis of Democracy. Report on the Governability of democracies to the Trilateral Commission*.
- Decker, H., & Krämer, N. (2023). Is Personality Key? Persuasive Effects of Prior Attitudes and Personality in Political Microtargeting. *Media and Communication*, 11(3), 250–261. <https://doi.org/10.17645/mac.v11i3.6627>
- Delamare Le Deist, F., & Winterton, J. (2005). What Is Competence? *Human Resource Development International*, 8(1), 27–46. <https://doi.org/10.1080/1367886042000338227>
- Denver, D., & Hands, G. (1990). Does Studying Politics Make a Difference? The Political Knowledge, Attitudes and Perceptions of School Students. *British Journal of Political Science*, 20(2), 263–279. <https://doi.org/10.1017/S0007123400005809>
- Die Geschäftsstelle für Digitale Kompetenzen. (n.d.). OEAD. Retrieved October 2, 2024, from <https://oead.at/de/expertise/geschaeftsstelle-digitale-kompetenzen>
- Digital Education Action Plan 2021–2027. *Resetting education and training for the digital age*. (2020). European Commission. <https://eur-lex.europa.eu/legal-content/EN/TXT/PDF/?uri=CELEX:52020DC0624>
- Dobber, T., Ó Fathaigh, R., & Zuiderveen Borgesius, F. J. (2019). The regulation of online political microtargeting in Europe. *Internet Policy Review*, 8(4). <https://doi.org/10.14763/2019.4.1440>
- Dobber, T., Trilling, D., Helberger, N., & de Vreese, C. (2019). *Spiraling downward: The reciprocal relation between attitude toward political behavioral targeting and privacy concerns*. 1212–1231.
- Dobber, T., Trilling, D., Helberger, N., & De Vreese, C. H. (2017). Two crates of beer and 40 pizzas: The adoption of innovative political behavioural targeting techniques. *Internet Policy Review*, 6(4). <https://doi.org/10.14763/2017.4.777>
- Dommett, K., Barclay, A., & Gibson, R. (2023). Just what is data-driven campaigning? A systematic review. *Information, Communication & Society*, 1–22. <https://doi.org/10.1080/1369118X.2023.2166794>
- Dommett, K., Bon, E., Lecheler, S., & Kruikeimeier, S. (2022, 26.08). *The Bright Side of Data-Driven Campaigning? How Targeting can be Beneficial for Society*. ECPR General Conference, University of Innsbruck, Austria.
- Dommett, K., Kefford, G., & Kruschinski, S. (2024). *Data-Driven Campaigning and Political Parties: Five Advanced Democracies Compared*. Oxford University Press.

- Druckman, J. N. (2022). *Experimental Thinking: A Primer on Social Science Experiments*. Cambridge University Press. <https://doi.org/10.1017/9781108991353>
- Emerson, R. M. (1976). Social Exchange Theory. *Annual Review of Sociology*, 2, 335–363.
- Engesser, S., Ernst, N., Esser, F., & Büchel, F. (2017). Populism and social media: How politicians spread a fragmented ideology. *Information, Communication & Society*, 20(8), 1109–1126. <https://doi.org/10.1080/1369118X.2016.1207697>
- Entman, R. M. (1993). Framing: Toward Clarification of a Fractured Paradigm. *Journal of Communication*, 43(4), 51–58.
- Escobar, O. (2017). Pluralism and Democratic Participation: What Kind of Citizen are Citizens Invited to be? *Contemporary Pragmatism*, 14(4), 416–438. <https://doi.org/10.1163/18758185-01404002>
- Europeans concerned by cost of living crisis and expect additional EU measures*. (2023, December 2). [Press Release]. News European Parliament. <https://www.europarl.europa.eu/news/en/press-room/20230109IPR65918/europeans-concerned-by-cost-of-living-crisis-and-expect-additional-eu-measures>
- Ewe, K. (2023, December 28). The Ultimate Election Year: All the Elections Around the World in 2024. *Time*. <https://time.com/6550920/world-elections-2024/>
- Farrell, D. M., & Schmitt-Beck, R. (2003). *Do political campaigns matter?: Campaign effects in elections and referendums*. Routledge.
- Fieldhouse, E., Green, J., Evans, G., Mellon, J., Prosser, C., Schmitt, H., & Van Der Eijk, C. (2020). *Electoral Shocks: The Volatile Voter in a Turbulent World* (1st ed.). Oxford University Press. <https://doi.org/10.1093/oso/9780198800583.001.0001>
- Finkel, S. (1995). *Causal Analysis with panel data*. Thousand Oaks, Sage.
- Fowler, E. F., Franz, M. M., Martin, G. J., Peskowitz, Z., & Ridout, T. N. (2021). Political Advertising Online and Offline. *American Political Science Review*, 115(1), 130–149. <https://doi.org/10.1017/S000305420000696>
- Fowler, E. F., Franz, M., & Ridout, T. N. (2022). *Political Advertising in the United States* (Second). Taylor & Francis.
- Friestad, M., & Wright, P. (1994). The Persuasion Knowledge Model: How People Cope with Persuasion Attempts. *Journal of Consumer Research*, 21(1), 1. <https://doi.org/10.1086/209380>
- Gagrčin, E., Schaetz, N., Rakowski, N., Toth, R., Renz, A., Vladova, G., & Emmer, M. (2021). *We and AI - Living in a Datafied World: Experiences & Attitudes of Young Europeans*. Weizenbaum Institute for the Networked Society - The German Internet Institute; Goethe-Institut e.V. <https://doi.org/10.34669/wi/1GDPR>. (n.d.). <http://data.europa.eu/eli/reg/2016/679/oj>
- Gerber, A. S. (2011). Field Experiments in Political Science. In D. P. Green, J. N. Druckman, J. H. Kuklinski, & A. Lupia (Eds.), *Cambridge Handbook of Experimental Political Science* (pp. 115–141).
- Gibson, R., Bon, E., & Dommett, K. (2024). “I always feel like somebody’s watching me”: What do the U.S. electorate know about political micro-targeting and how much do they care? *Journal of Quantitative Description: Digital Media*, 4. <https://doi.org/10.51685/jqd.2024.001>
- Gibson, R., Bon, E., & Römmele, A. (2023). Operationalizing data-driven campaigning: Designing a new tool for mapping and guiding regulatory intervention. *Policy Studies*, 1–17. <https://doi.org/10.1080/01442872.2023.2259333>
- Gibson, R., & McAllister, I. (2015). Normalising or Equalising Party Competition? Assessing the Impact of the Web on Election Campaigning. *Political Studies*, 63(3), 529–547. <https://doi.org/10.1111/1467-9248.12107>

- Gollwitzer, P. M. (1993). Goal Achievement: The Role of Intentions. *European Review of Social Psychology*, 4(1), 141–185. <https://doi.org/10.1080/14792779343000059>
- Gorton, W. A. (2016). Manipulating Citizens: How Political Campaigns' Use of Behavioral Social Science Harms Democracy. *New Political Science*, 38(1), 61–80. <https://doi.org/10.1080/07393148.2015.1125119>
- Gran, A.-B., Booth, P., & Bucher, T. (2021). To be or not to be algorithm aware: A question of a new digital divide? *Information, Communication & Society*, 24(12), 1779–1796. <https://doi.org/10.1080/1369118X.2020.1736124>
- Guidelines pursuant to Article 33a(3) of the Audiovisual Media Services Directive on the scope of Member States' reports concerning measures for the promotion and development of media literacy skills.* (2023). European Commission. [https://eur-lex.europa.eu/legal-content/EN/TXT/PDF/?uri=CELEX:52023XC0223\(01\)](https://eur-lex.europa.eu/legal-content/EN/TXT/PDF/?uri=CELEX:52023XC0223(01))
- Habermas, J. (2009). *Europe: The faltering project*. Polity.
- Habermas, J. (2012). *The crisis of the European Union: A response*. Polity.
- Habermas, J. (2018). Interview with Jürgen Habermas. In A. Bächtiger, J. S. Dryzek, J. Mansbridge, & M. Warren (Eds.), *The Oxford Handbook of Deliberative Democracy* (p. 0). Oxford University Press. <https://doi.org/10.1093/oxfordhb/9780198747369.013.60>
- Ham, C.-D. (2017). Exploring how consumers cope with online behavioral advertising. *International Journal of Advertising*, 36(4), 632–658. <https://doi.org/10.1080/02650487.2016.1239878>
- Helberger, N., Dobber, T., & de Vreese, C. (2021). Towards Unfair Political Practices Law: Learning Lessons from the Regulation of Unfair Commercial Practices for Online Political Advertising. *Journal of Intellectual Property, Information Technology and Electronic Commerce Law*, 12(3), 273–296.
- Helberger, N., Huh, J., Milne, G., Strycharz, J., & Sundaram, H. (2020). Macro and Exogenous Factors in Computational Advertising: Key Issues and New Research Directions. *Journal of Advertising*, 49(4), 377–393. <https://doi.org/10.1080/00913367.2020.1811179>
- Henrich, J., Heine, S. J., & Norenzayan, A. (2010). Most people are not WEIRD. *Nature*, 466(7302), 29–29. <https://doi.org/10.1038/466029a>
- Hersh, E. D. (2015). *Hacking the electorate: How campaigns perceive voters*. Cambridge University Press.
- Hillygus, D. S., & Shields, T. G. (2009). *The Persuadable Voter*. Princeton University Press; JSTOR. <http://www.jstor-org.uaccess.univie.ac.at/stable/j.ctt7rxq8>
- Hobbs, R. (2010). *Digital and media literacy: A plan of action*. (Communication and Society Program) [White Paper]. Aspen Institute. <https://files.eric.ed.gov/fulltext/ED523244.pdf>
- Hoffman, L. H., & Schechter, A. L. (2016). Technical Skills Required: How Technological Efficacy Influences Online Political Behavior. *Journal of Broadcasting & Electronic Media*, 60(3), 484–502. <https://doi.org/10.1080/08838151.2016.1203321>
- Hu, M. (2020). Cambridge Analytica's black box. *Big Data & Society*, 7(2), 205395172093809. <https://doi.org/10.1177/2053951720938091>
- Hudders, L., De Pauw, P., Cauberghe, V., Panic, K., Zarouali, B., & Rozendaal, E. (2017). Shedding New Light on How Advertising Literacy Can Affect Children's Processing of Embedded Advertising Formats: A Future Research Agenda. *Journal of Advertising*, 46(2), 333–349. <https://doi.org/10.1080/00913367.2016.1269303>
- Jackson, T. H., & Marcus, G. E. (1975). Political competence and ideological constraint. *Social Science Research*, 4(2), 93–111. [https://doi.org/10.1016/0049-089X\(75\)90006-X](https://doi.org/10.1016/0049-089X(75)90006-X)
- Jafari, A., Firat, F., Süerdem, A., Askegaard, S., & Dalli, D. (2012). Non-western contexts: The invisible half. *Marketing Theory*, 12(1), 3–12. <https://doi.org/10.1177/1470593111424183>

- Johann, D., Königslöw, K. K., Kritzing, S., & Thomas, K. (2018). Intra-Campaign Changes in Voting Preferences: The Impact of Media and Party Communication. *Political Communication*, 35(2), 261–286. <https://doi.org/10.1080/10584609.2017.1339222>
- Jungherr, A., Rodríguez, G. R., Rivero, G., & Gayo-Avello, D. (2020). *Retooling Politics: How Digital Media Are Shaping Democracy*. Cambridge University Press. <https://books.google.at/books?id=KxfeDwAAQBAJ>
- Kaid, L. L. (2006). Political Advertising in the United States. In L. L. Kaid & C. Holtz-Bacha (Eds.), *The SAGE Handbook of Political Advertising* (pp. 37–61).
- Kang, C., & Frenkel, S. (2018, April 14). Facebook says Cambridge Analytica harvested data of up to 87 million users. *The New York Times*.
- Karpf, D. (2016). *Analytic activism: Digital listening and the new political strategy*. Oxford University Press.
- Kefford, G. (2021). Introduction. In G. Kefford, *Political Parties and Campaigning in Australia: Data, Digital and Field* (pp. 1–21). Springer International Publishing. https://doi.org/10.1007/978-3-030-68234-7_1
- Kefford, G., Dommett, K., Baldwin-Philippi, J., Bannerman, S., Dobber, T., Kruschinski, S., Kruike-meier, S., & Rzepecki, E. (2022). Data-driven campaigning and democratic disruption: Evidence from six advanced democracies. *Party Politics*, 135406882210840. <https://doi.org/10.1177/13540688221084039>
- Kelly, L., Kerr, G., & Drennan, J. (2020). Triggers of engagement and avoidance: Applying approach-avoid theory. *Journal of Marketing Communications*, 26(5), 488–508. <https://doi.org/10.1080/13527266.2018.1531053>
- Kim, Y., Chen, H.-T., & Gil De Zúñiga, H. (2013). Stumbling upon news on the Internet: Effects of incidental news exposure and relative entertainment use on political engagement. *Computers in Human Behavior*, 29(6), 2607–2614. <https://doi.org/10.1016/j.chb.2013.06.005>
- Kirmani, A., & Campbell, M. C. (2004). Goal Seeker and Persuasion Sentry: How Consumer Targets Respond to Interpersonal Marketing Persuasion. *Journal of Consumer Research*, 31(3), 573–582. <https://doi.org/10.1086/425092>
- Kleis Nielsen, R., & Ganter, S. A. (2018). Dealing with digital intermediaries: A case study of the relations between publishers and platforms. *New Media & Society*, 20(4), 1600–1617. <https://doi.org/10.1177/1461444817701318>
- Klinger, U., Kreiss, D., & Mutsvairo, B. (2023). *Platforms, power, and politics: An introduction to political communication in the digital age*. Polity Press.
- König, P. D. (2020). Why Digital-Era Political Marketing is Not the Death Knell for Democracy: On the Importance of Placing Political Microtargeting in the Context of Party Competition. *Statistics, Politics and Policy*, 11(1), 87–110. <https://doi.org/10.1515/spp-2019-0006>
- König, P. D., & Wenzelburger, G. (2020). Opportunity for renewal or disruptive force? How artificial intelligence alters democratic politics. *Government Information Quarterly*, 37(3), 101489. <https://doi.org/10.1016/j.giq.2020.101489>
- Kozyreva, A., Lorenz-Spreen, P., Hertwig, R., Lewandowsky, S., & Herzog, S. M. (2021). Public attitudes towards algorithmic personalization and use of personal data online: Evidence from Germany, Great Britain, and the United States. *Humanities and Social Sciences Communications*, 8(1), Article 1. <https://doi.org/10.1057/s41599-021-00787-w>
- Kreiss, D. (2012). *Taking our country back: The crafting of networked politics from Howard Dean to Barack Obama*. Oxford University Press, USA.
- Kreiss, D. (2016). *Prototype politics: Technology-intensive campaigning and the data of democracy*. Oxford university press.
- Kreiss, D., & McGregor, S. C. (2018). Technology Firms Shape Political Communication: The Work of Microsoft, Facebook, Twitter, and Google With Campaigns During the 2016 U.S. Presidential Cycle. *Political Communication*, 35(2), 155–177. <https://doi.org/10.1080/10584609.2017.1364814>

- Kruikemeier, S., Sezgin, M., & Boerman, S. C. (2016). Political Microtargeting: Relationship Between Personalized Advertising on Facebook and Voters' Responses. *Cyberpsychology, Behavior, and Social Networking*, 19(6), 367–372. <https://doi.org/10.1089/cyber.2015.0652>
- Kruschinski, S., & Haller, A. (2017). Restrictions on data-driven political micro-targeting in Germany. *Internet Policy Review*, 6(4). <https://doi.org/10.14763/2017.4.780>
- Kuklinski, J. H., Quirk, P. J., Jerit, J., & Rich, R. F. (2001). The Political Environment and Citizen Competence. *American Journal of Political Science*, 45(2), 410. <https://doi.org/10.2307/2669349>
- Lazarsfeld, P. F., Berelson, B., & Gaudet, H. (1968). *The people's choice: How the voter makes up his mind in a presidential campaign*. Columbia University Press.
- Livingstone, S. (2004). What is media literacy? *Intermedia*, 32(3), 18–20.
- Livingstone, S., & Helsper, E. J. (2006). Does advertising literacy mediate the effects of advertising on children? A critical examination of two linked research literatures in relation to obesity and food choice. *Journal of Communication*, 56(3), 560–584. <https://doi.org/doi/full/10.1111/j.1460-2466.2006.00301.x>
- Lomas, N. (2024, February 16). *European digital rights groups say the future of online privacy is on a knife edge*. Tech Crunch. <https://techcrunch.com/2024/02/15/no-consent-or-pay-pls/>
- Lorenz-Spreen, P., Geers, M., Pachur, T., Hertwig, R., Lewandowsky, S., & Herzog, S. M. (2021). Boosting people's ability to detect microtargeted advertising. *Scientific Reports*, 11(1), 15541. <https://doi.org/10.1038/s41598-021-94796-z>
- Lupia, A. (2016). *Uninformed Why People Seem to Know So Little about Politics and What We Can Do about It*. Oxford University Press. <https://doi.org/10.1093/oso/9780190263720.001.0001>
- Luskin, R. C. (1987). Measuring Political Sophistication. *American Journal of Political Science*, 31(4), 856. <https://doi.org/10.2307/2111227>
- Magin, M., Podschuweit, N., Haßler, J., & Russmann, U. (2017). Campaigning in the fourth age of political communication. A multi-method study on the use of Facebook by German and Austrian parties in the 2013 national election campaigns. *Information, Communication & Society*, 20(11), 1698–1719. <https://doi.org/10.1080/1369118X.2016.1254269>
- Makhortykh, M., Urman, A., & Ulloa, R. (2020). How search engines disseminate information about COVID-19 and why they should do better. *Harvard Kennedy School Misinformation Review*. <https://doi.org/10.37016/mr-2020-017>
- Malmelin, N. (2010). What is Advertising Literacy? Exploring the Dimensions of Advertising Literacy. *Journal of Visual Literacy*, 29(2), 129–142. <https://doi.org/10.1080/23796529.2010.11674677>
- Masur, P. K. (2020). How Online Privacy Literacy Supports Self-Data Protection and Self-Determination in the Age of Information. *Media and Communication*, 8(2), 258–269. <https://doi.org/10.17645/mac.v8i2.2855>
- Matz, S. C., Kosinski, M., Nave, G., & Stillwell, D. J. (2017). Psychological targeting as an effective approach to digital mass persuasion. *Proceedings of the National Academy of Sciences*, 114(48), 12714–12719. <https://doi.org/10.1073/pnas.1710966114>
- Mazarr, M. J., Casey, A., Demus, I., Harold, S., Mathews, L. J., Beauchamp-Mustafaga, N., & Sladden, J. (2019). *Hostile social manipulation: Present realities and emerging trends*. Rand Corporation Santa Monica, CA.
- McClelland, D. C. (1973). Testing for competence rather than for “intelligence.” *American Psychologist*, 28(1), 1. <https://doi.org/DOI:10.1037/H0034092>
- McDermott, R. (2011). Internal and External Validity. In D. P. Green, J. N. Druckman, J. H. Kuklinski, & A. Lupia (Eds.), *Cambridge Handbook of Experimental Political Science* (pp. 27–41).

- Metcalf, A. L., Angle, J. W., Phelan, C. N., Muth, B. A., & Finley, J. C. (2019). More “Bank” for the Buck: Microtargeting and Normative Appeals to Increase Social Marketing Efficiency. *Social Marketing Quarterly*, 25(1), 26–39. <https://doi.org/10.1177/1524500418818063>
- Mihailidis, P., & Thevenin, B. (2013). Media Literacy as a Core Competency for Engaged Citizenship in Participatory Democracy. *American Behavioral Scientist*, 57(11), 1611–1622. <https://doi.org/10.1177/0002764213489015>
- Morimoto, M. (2021). Privacy concerns about personalized advertising across multiple social media platforms in Japan: The relationship with information control and persuasion knowledge. *International Journal of Advertising*, 40(3), 431–451. <https://doi.org/10.1080/02650487.2020.1796322>
- Mutz, D. C. (2006). *Hearing the other side: Deliberative versus participatory democracy*. Cambridge University Press.
- Nelson, M. R., Ham, C. D., & Haley, E. (2021). What Do We Know about Political Advertising? Not Much! Political Persuasion Knowledge and Advertising Skepticism in the United States. *Journal of Current Issues & Research in Advertising*, 42(4), 329–353. <https://doi.org/10.1080/10641734.2021.1925179>
- Newman, B., & Perloff, R. (2004). Political Marketing: Theory, Research, and Applications. In L. L. Kaid (Ed.), *Handbook of Political Communication Research* (pp. 17–43). Lawrence Erlbaum Associates Publishers.
- Newman, N., Fletcher, R., Eddy, K., Robinson, C. T., & Nielsen, R. K. (2023). *Reuters Institute digital news report 2023*. Reuters Institute for the Study of Journalism. <https://doi.org/10.60625/RISJ-P6ES-HB13>
- Norris, P. (2000). *A Virtuous Circle: Political Communications in Postindustrial Societies*. Cambridge University Press.
- Odzuck, E., & Günther, S. (2022). Digital campaigning as a policy of democracy promotion: Applying deliberative theories of democracy to political parties. *Zeitschrift Für Politikwissenschaft*, 32(2), 507–530. <https://doi.org/10.1007/s41358-021-00308-w>
- Otto, L. P., Loecherbach, F., & Vliegenthart, R. (2023). Linkage Analysis Revised – Linking Digital Traces and Survey Data. *Communication Methods and Measures*, 1–19. <https://doi.org/10.1080/19312458.2023.2257595>
- Pateman, C. (1970). *Participation and democratic theory*. Cambridge University Press. <https://www-cambridge-org.uaccess.univie.ac.at/core/books/participation-and-democratic-theory/75E1EDCA842303901349FB5D3BoF261>
- Pedersen, M. N. (1979). The dynamics of European party systems: Changing patterns of electoral volatility. *European Journal of Political Research*, 7(1), 1–26. <https://doi.org/10.1111/j.1475-6765.1979.tb01267.x>
- Pffor, K., & Schröder, J. (2016). Why Panel Surveys? *GESIS Survey Guidelines*. https://doi.org/10.15465/GESIS-SG_EN_008
- Phillips, J. M., Reynolds, T. J., & Reynolds, K. (2010). Decision-based voter segmentation: An application for campaign message development. *European Journal of Marketing*, 44(3/4), 310–330. <https://doi.org/10.1108/03090561011020444>
- Rattinger, H., & Wiegand, E. (2014). Volatility on the Rise? Attitudinal Stability, Attitudinal Change, and Voter Volatility. In B. Weßels, H. Rattinger, S. Roßteutscher, & R. Schmitt-Beck (Eds.), *Voters on the Move or on the Run?* (pp. 287–308). Oxford University Press. <https://doi.org/10.1093/acprof:oso/9780199662630.003.0013>
- Regulation (EU) 2022/2065 of the European Parliament and of the Council of 19 October 2022 on a Single Market For Digital Services and Amending Directive 2000/31/EC (Digital Services Act) (2022). <https://eur-lex.europa.eu/legal-content/EN/TXT/PDF/?uri=CELEX:32022R2065>
- Roemmele, A., & Gibson, R. (2020). Scientific and subversive: The two faces of the fourth era of political campaigning. *New Media & Society*, 22(4), 595–610. <https://doi.org/10.1177/1461444819893979>

- Rozendaal, E., Lapierre, M. A., van Reijmersdal, E. A., & Buijzen, M. (2011). Reconsidering Advertising Literacy as a Defense Against Advertising Effects. *Media Psychology*, 14(4), 333–354. <https://doi.org/10.1080/15213269.2011.620540>
- Rozendaal, E., Slot, N., Van Reijmersdal, E. A., & Buijzen, M. (2013). Children's Responses to Advertising in Social Games. *Journal of Advertising*, 42(2–3), 142–154. <https://doi.org/10.1080/00913367.2013.774588>
- Rubinstein, I. S. (2014). Voter Privacy in the Age of Big Data. *Wisconsin Law Review*. <https://dx.doi.org/10.2139/ssrn.2447956>
- Russmann, U. (2022). Social Media as Strategic Campaign Tool: Austrian Political Parties Use of Social Media over Time. In D. Taras & R. Davis (Eds.), *Electoral Campaigns, Media, and the New World of Digital Politics* (pp. 263–282). <https://www.jstor.org/stable/10.3998/mpub.12013603.16>
- Salman, M., Ganie, S. A., & Saleem, I. (2020). The concept of competence: A thematic review and discussion. *European Journal of Training and Development*, 44(6/7), 717–742. <https://doi.org/10.1108/EJTD-10-2019-0171>
- Scammell, M., & Langer, A. I. (2006). Political advertising: Why is it so boring? *Media, Culture & Society*, 28(5), 763–784. <https://doi.org/10.1177/01634437060607025>
- Schudson, M. (1998). *The Good Citizen: A History of American Civic Life*. Martin Kessler Books.
- Sehl, A., Simon, F. M., & Schroeder, R. (2022). The populist campaigns against European public service media: Hot air or existential threat? *International Communication Gazette*, 84(1), 3–23. <https://doi.org/10.1177/1748048520939868>
- Shadish, W. R., Cook, T. D., & Campbell, D. T. (2006). *Experimental and quasi-experimental designs for generalized causal inference* ([Nachdr.]). Houghton Mifflin. <https://ubdata.univie.ac.at/AC05923820>
- Smit, E. G., Van Noort, G., & Voorveld, H. A. M. (2014). Understanding online behavioural advertising: User knowledge, privacy concerns and online coping behaviour in Europe. *Computers in Human Behavior*, 32, 15–22. <https://doi.org/10.1016/j.chb.2013.11.008>
- Solove, D., & Hartzog, W. (2014). The FTC and the new common law of privacy. *Columbia Law Review*, 114. [https://doi.org/Solove, Daniel J. and Hartzog, Woodrow, The FTC and the New Common Law of Privacy \(August 15, 2013\). 114 Columbia Law Review 583 \(2014\), GWU Legal Studies Research Paper No. 2013-120, GWU Law School Public Law Research Paper No. 2013-120, Available at SSRN: https://ssrn.com/abstract=2312913 or http://dx.doi.org/10.2139/ssrn.2312913](https://doi.org/Solove, Daniel J. and Hartzog, Woodrow, The FTC and the New Common Law of Privacy (August 15, 2013). 114 Columbia Law Review 583 (2014), GWU Legal Studies Research Paper No. 2013-120, GWU Law School Public Law Research Paper No. 2013-120, Available at SSRN: https://ssrn.com/abstract=2312913 or http://dx.doi.org/10.2139/ssrn.2312913)
- Spurk, D., Hirschi, A., Wang, M., Valero, D., & Kauffeld, S. (2020). Latent profile analysis: A review and “how to” guide of its application within vocational behavior research. *Journal of Vocational Behavior*, 120, 103445. <https://doi.org/10.1016/j.jvb.2020.103445>
- Strömbäck, J. (2005). In Search of a Standard: Four models of democracy and their normative implications for journalism. *Journalism Studies*, 6(3), 331–345. <https://doi.org/10.1080/14616700500131950>
- Strömbäck, J. (2008). Four Phases of Mediatization: An Analysis of the Mediatization of Politics. *The International Journal of Press/Politics*, 13(3), 228–246. <https://doi.org/10.1177/1940161208319097>
- Strömbäck, J., & Esser, F. (2014). Introduction: Making sense of the mediatization of politics. *Journalism Studies*, 15(3), 243–255. <https://doi.org/10.1080/1461670X.2014.897412>
- Strycharz, J., & Segijn, C. M. (2022). The Future of Dataveillance in Advertising Theory and Practice. *Journal of Advertising*, 51(5), 574–591. <https://doi.org/10.1080/00913367.2022.2109781>
- Stubenvoll, M., & Binder, A. (2024). Is knowledge power? Testing whether knowledge affects chilling effects and privacy-protective behaviors using browser histories. *Computers in Human Behavior*, 150, 107949. <https://doi.org/10.1016/j.chb.2023.107949>
- Taras, D. (2022). How Digital Media Has Changed Elections: An Introduction. In D. Taras & R. Davis (Eds.), *Electoral Campaigns, Media, and the New World of Digital Politics* (pp. 1–22). University of Michigan Press.

- Thorson, E., Wicks, R., & Leshner, G. (2012). Experimental Methodology in Journalism and Mass Communication Research. *Journalism & Mass Communication Quarterly*, 89(1), 112–124. <https://doi.org/10.1177/1077699011430066>
- Thorson, K., Cotter, K., Medeiros, M., & Pak, C. (2021). Algorithmic inference, political interest, and exposure to news and politics on Facebook. *Information, Communication & Society*, 24(2), 183–200. <https://doi.org/10.1080/1369118X.2019.1642934>
- Tufekci, Z. (2014). Engineering the public: Big data, surveillance and computational politics. *First Monday*. <https://doi.org/10.5210/fm.v19i7.4901>
- Turow, J., Carpini, M. X. D., Draper, N. A., & Howard-Williams, R. (2012). *Americans Roundly Reject Tailored Political Advertising* (pp. 1–28). https://repository.upenn.edu/asc_papers/398
- Vaccari, C. (2013). *Digital politics in Western democracies: A comparative study*. JHU Press.
- Van Aelst, P., Strömbäck, J., Aalberg, T., Esser, F., De Vreese, C., Matthes, J., Hopmann, D., Salgado, S., Hubé, N., Stepińska, A., Papathanassopoulos, S., Berganza, R., Legnante, G., Reinemann, C., Sheaffer, T., & Stanyer, J. (2017). Political communication in a high-choice media environment: A challenge for democracy? *Annals of the International Communication Association*, 41(1), 3–27. <https://doi.org/10.1080/23808985.2017.1288551>
- van der Meer, T. G. L. A., Hameleers, M., & Ohme, J. (2023). Can Fighting Misinformation Have a Negative Spillover Effect? How Warnings for the Threat of Misinformation Can Decrease General News Credibility. *Journalism Studies*, 24(6), 803–823. <https://doi.org/10.1080/1461670X.2023.2187652>
- Van Drunen, M. Z., & Noroozian, A. (2023). *How to Design Data Access for Researchers: A Legal and Software Development Perspective* [Preprint]. SSRN. <https://doi.org/10.2139/ssrn.4330544>
- Van Erkel, P. F. A., & Van Aelst, P. (2021). Why Don't We Learn from Social Media? Studying Effects of and Mechanisms behind Social Media News Use on General Surveillance Political Knowledge. *Political Communication*, 38(4), 407–425. <https://doi.org/10.1080/10584609.2020.1784328>
- Verba, S., Scholzman, K. L., & Brady, H. E. (1995). *Voice and equality: Civic voluntarism in American politics*. Harvard University Press.
- Vermunt, J. K., & Magidson, J. (2002). *Latent class models for classification*. 41, 531–537.
- Votta, F., Dobber, T., Helberger, N., Vreese, C. de, & Guinaudeau, B. (2023). *Algorithmic Microtargeting? Testing the Influence of the Meta Ad Delivery Algorithm*. [Manuscript submitted for publication].
- Wilkins, A. S. (2018). To Lag or Not to Lag?: Re-Evaluating the Use of Lagged Dependent Variables in Regression Analysis. *Political Science Research and Methods*, 6(2), 393–411. <https://doi.org/10.1017/psrm.2017.4>
- Zaller, J. R. (1992). *The Nature and Origins of Mass Opinion*. Cambridge University Press. <https://doi.org/10.1017/CBO9780511818691>
- Zuiderveen Borgesius, F. J., Möller, J., Kruikemeier, S., Ó Fathaigh, R., Irion, K., Dobber, T., Bodo, B., & De Vreese, C. (2018). Online Political Microtargeting: Promises and Threats for Democracy. *Utrecht Law Review*, 14(1), 82. <https://doi.org/10.18352/ulr.420>
- Zukin, C., Keeter, S., Andolina, M., Jenkins, K., & Carpini, M. X. D. (2006). *A new engagement?: Political participation, civic life, and the changing American citizen*. Oxford University Press.