

SECU0050: Advanced Crime Analysis

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1

Miller AM. Review of R for Data Science: Import, Tidy, Transform, Visualize, and Model Data by Hadley Wickham and Garrett Golemund. *ACM SIGACT News* 2017;**48**:14-9. doi:10.1145/3138860.3138865

2

Williams ML, Burnap P, Sloan L. Crime Sensing with Big Data: The Affordances and Limitations of using Open Source Communications to Estimate Crime Patterns. *British Journal of Criminology* Published Online First: 31 March 2016. doi:10.1093/bjc/azw031

3

Chen X, Cho Y, Jang SY. Crime prediction using Twitter sentiment and weather. In: 2015 Systems and Information Engineering Design Symposium. IEEE 2015. 63-8. doi:10.1109/SIEDS.2015.7117012

4

Wang M, Gerber MS. Using Twitter for Next-Place Prediction, with an Application to Crime Prediction. In: 2015 IEEE Symposium Series on Computational Intelligence. IEEE 2015. 941-8. doi:10.1109/SSCI.2015.138

5

Ristea A, Langford C, Leitner M. Relationships between crime and Twitter activity around stadiums. In: 2017 25th International Conference on Geoinformatics. IEEE 2017. 1-5. doi:10.1109/GEOINFORMATICS.2017.8090933

6

Kostakos, P. Public perceptions on organised crime, Mafia, and Terrorism: A big data analysis based on Twitter and Google Trends. *International Journal of Cyber Criminology*; **12**:282–99. doi:10.5281/zenodo.1467919

7

Almehmadi A, Joudaki Z, Jalali R. Language usage on Twitter predicts crime rates. In: *Proceedings of the 10th International Conference on Security of Information and Networks - SIN '17*. ACM Press 2017. 307–10. doi:10.1145/3136825.3136854

8

Pfeffer J, Mayer K, Morstatter F. Tampering with Twitter's Sample API. *EPJ Data Science* 2018;**7**. doi:10.1140/epjds/s13688-018-0178-0

9

Solymosi R, Bowers KJ, Fujiyama T. Crowdsourcing Subjective Perceptions of Neighbourhood Disorder: Interpreting Bias in Open Data. *The British Journal of Criminology* 2018;**58**:944–67. doi:10.1093/bjc/azx048

10

Founta, Antigoni-Maria. Large Scale Crowdsourcing and Characterization of Twitter Abusive Behavior.

[https://ucl-new-primo.hosted.exlibrisgroup.com/primo-explore/fulldisplay?docid=TN_arxiv1802.00393&context=PC&vid=UCL_VU2&lang=en_US&search_scope=CSCOP_UCL&adaptor=primo_central_multiple_fe&tab=local&query=any,contains,Founta,%20A.-M.,%20Djouvas,%20C.,%20Chatzakou,%20D.,%20Leontiadis,%20I.,%20Blackburn,%20J.,%20Stringhini,%20G.,%20%E2%80%A6%20Kourtellis,%20N.%20\(2018\).%20Large%20Scale%20Crowdsourcing%20and%20Characterization%20of%20Twitter%20Abusive%20Behavior.%20ArXiv:1802.00393%20%5BCs%5D.%20Retrieved%20from%20%5Bhttp:%2F%2Farxiv.org%2Fabs%2F1802.00393%5D\(http:%2F%2Farxiv.org%2Fabs%2F1802.00393\)&sortby=rank](https://ucl-new-primo.hosted.exlibrisgroup.com/primo-explore/fulldisplay?docid=TN_arxiv1802.00393&context=PC&vid=UCL_VU2&lang=en_US&search_scope=CSCOP_UCL&adaptor=primo_central_multiple_fe&tab=local&query=any,contains,Founta,%20A.-M.,%20Djouvas,%20C.,%20Chatzakou,%20D.,%20Leontiadis,%20I.,%20Blackburn,%20J.,%20Stringhini,%20G.,%20%E2%80%A6%20Kourtellis,%20N.%20(2018).%20Large%20Scale%20Crowdsourcing%20and%20Characterization%20of%20Twitter%20Abusive%20Behavior.%20ArXiv:1802.00393%20%5BCs%5D.%20Retrieved%20from%20%5Bhttp:%2F%2Farxiv.org%2Fabs%2F1802.00393%5D(http:%2F%2Farxiv.org%2Fabs%2F1802.00393)&sortby=rank)

11

HTML basics | MDN.

https://developer.mozilla.org/en-US/docs/Learn/Getting_started_with_the_web/HTML_basics

12

R Web Scraping Tutorial with rvest (article) - DataCamp.
<https://www.datacamp.com/community/tutorials/r-web-scraping-rvest>

13

Web scraping tutorial in R – Towards Data Science.
<https://towardsdatascience.com/web-scraping-tutorial-in-r-5e71fd107f32>

14

Learn To Create Your Own Datasets — Web Scraping in R.
<https://towardsdatascience.com/learn-to-create-your-own-datasets-web-scraping-in-r-f934a31748a5>

15

Hadley Wickham. Easily Harvest (Scrape) Web Pages [R package rvest version 0.3.2].
<https://cran.r-project.org/web/packages/rvest/index.html>

16

ElSherief, Mai. Hate Lingo: A Target-based Linguistic Analysis of Hate Speech in Social Media. Published Online First: 2018.
<https://arxiv.org/abs/1804.04257>

17

14 Strings | R for Data Science. <https://r4ds.had.co.nz/strings.html>

18

Replication of Chapter 5 of *Quantitative Social Science: An Introduction* □
quanteda. <https://quanteda.io/articles/pkgdown/replication/qss.html>

19

Example: textual data visualization  quanteda.
<https://quanteda.io/articles/pkgdown/examples/plotting.html>

20

Kleinberg, Bennett. Identifying the sentiment styles of YouTube's vloggers.
[https://ucl-new-primo.hosted.exlibrisgroup.com/primo-explore/fulldisplay?docid=TN_arxiv1808.09722&context=PC&vid=UCL_VU2&lang=en_US&search_scope=CSCOP_UCL&adaptor=primo_central_multiple_fe&tab=local&query=any,contains,Kleinberg,%20B.,%20Mozes,%20M.,%20&%20Van%20der%20Vegt,%20I.%20\(2018\).%20Identifying%20the%20sentiment%20styles%20of%20YouTube%E2%80%99s%20vloggers.%20Proceedings%20of%20the%202018%20Conference%20on%20Empirical%20Methods%20in%20Natural%20Language%20Processing,%203581%E2%80%933590.%20Retrieved%20from%20%5Bhttp:%2F%2Faclweb.org%2Fanthology%2FD18-1394%5D\(http:%2F%2Faclweb.org%2Fanthology%2FD18-1394\)&offset=0](https://ucl-new-primo.hosted.exlibrisgroup.com/primo-explore/fulldisplay?docid=TN_arxiv1808.09722&context=PC&vid=UCL_VU2&lang=en_US&search_scope=CSCOP_UCL&adaptor=primo_central_multiple_fe&tab=local&query=any,contains,Kleinberg,%20B.,%20Mozes,%20M.,%20&%20Van%20der%20Vegt,%20I.%20(2018).%20Identifying%20the%20sentiment%20styles%20of%20YouTube%E2%80%99s%20vloggers.%20Proceedings%20of%20the%202018%20Conference%20on%20Empirical%20Methods%20in%20Natural%20Language%20Processing,%203581%E2%80%933590.%20Retrieved%20from%20%5Bhttp:%2F%2Faclweb.org%2Fanthology%2FD18-1394%5D(http:%2F%2Faclweb.org%2Fanthology%2FD18-1394)&offset=0)

21

Pérez-Rosas, Verónica. Automatic Detection of Fake News.
[https://ucl-new-primo.hosted.exlibrisgroup.com/primo-explore/fulldisplay?docid=TN_arxiv1708.07104&context=PC&vid=UCL_VU2&lang=en_US&search_scope=CSCOP_UCL&adaptor=primo_central_multiple_fe&tab=local&query=any,contains,P%C3%A9rez-Rosas,%20V.,%20Kleinberg,%20B.,%20Lefevre,%20A.,%20&%20Mihalcea,%20R.%20\(2018\).%20Automatic%20Detection%20of%20Fake%20News.%20In%20Proceedings%20of%20the%2027th%20International%20Conference%20on%20Computational%20Linguistics%20\(pp.%203391%E2%80%933401\).%20Santa%20Fe,%20New%20Mexico,%20USA:%20Association%20for%20Computational%20Linguistics.%20Retrieved%20from%20%5Bhttp:%2F%2Faclweb.org%2Fanthology%2FC18-1287%5D\(http:%2F%2Faclweb.org%2Fanthology%2FC18-1287\)&sortby=rank](https://ucl-new-primo.hosted.exlibrisgroup.com/primo-explore/fulldisplay?docid=TN_arxiv1708.07104&context=PC&vid=UCL_VU2&lang=en_US&search_scope=CSCOP_UCL&adaptor=primo_central_multiple_fe&tab=local&query=any,contains,P%C3%A9rez-Rosas,%20V.,%20Kleinberg,%20B.,%20Lefevre,%20A.,%20&%20Mihalcea,%20R.%20(2018).%20Automatic%20Detection%20of%20Fake%20News.%20In%20Proceedings%20of%20the%2027th%20International%20Conference%20on%20Computational%20Linguistics%20(pp.%203391%E2%80%933401).%20Santa%20Fe,%20New%20Mexico,%20USA:%20Association%20for%20Computational%20Linguistics.%20Retrieved%20from%20%5Bhttp:%2F%2Faclweb.org%2Fanthology%2FC18-1287%5D(http:%2F%2Faclweb.org%2Fanthology%2FC18-1287)&sortby=rank)

22

Kuhn M, Johnson K. Applied predictive modeling. New York, NY: : Springer 2013.
<http://UCL.ebib.com/patron/FullRecord.aspx?p=1317001>

23

Hastie T, Tibshirani R, Friedman JH. The elements of statistical learning: data mining, inference, and prediction. Second editon. New York: : Springer Verlag 2009.
http://ucl.alma.exlibrisgroup.com/view/action/uresolver.do?operation=resolveService&package_service_id=4193318630004761&institutionId=4761&customerId=4760

24

An Introduction to Machine Learning with R.

<https://lgatto.github.io/IntroMachineLearningWithR/unsupervised-learning.html>

25

R: Unsupervised Learning | DataCamp.

<https://www.datacamp.com/courses/unsupervised-learning-in-r>

26

Coveney PV, Dougherty ER, Highfield RR. Big data need big theory too. *Philosophical Transactions of the Royal Society A: Mathematical, Physical and Engineering Sciences* 2016;**374**. doi:10.1098/rsta.2016.0153

27

Quijano-Sánchez L, Liberatore F, Camacho-Collados J, et al. Applying automatic text-based detection of deceptive language to police reports: Extracting behavioral patterns from a multi-step classification model to understand how we lie to the police. *Knowledge-Based Systems* 2018;**149**:155–68. doi:10.1016/j.knosys.2018.03.010

28

Kadar C, Pletikosa I. Mining large-scale human mobility data for long-term crime prediction. *EPJ Data Science* 2018;**7**. doi:10.1140/epjds/s13688-018-0150-z

29

Burnap P, Williams ML. Us and them: identifying cyber hate on Twitter across multiple protected characteristics. *EPJ Data Science* 2016;**5**. doi:10.1140/epjds/s13688-016-0072-6