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EMPLOYMENT-
RESEARCH

*Since October 2019. **Post-Doctoral Research Fellow** with Prof. Dr. E.-J. Wagenmakers at Psychological Methods, University of Amsterdam, the Netherlands, and Visiting Post-Doctoral Research Fellow with Prof. Dr. P.D. Grünwald at the Machine Learning Group, Centrum Wiskunde & Informatica, Amsterdam, the Netherlands.*

*Since October 2016. **Chief Technology Officer** at JASP (“Jeffreys’s Amazing Statistics Program”), University of Amsterdam, the Netherlands. I lead a team of 6 software engineers, 9 analysts, and 5 marketers.*

*October 2018–September 2019 **Post-Doctoral Research Fellow** with Prof. Dr. P.D. Grünwald at the Machine Learning Group, Centrum Wiskunde & Informatica, Amsterdam, the Netherlands, and Visiting Post-Doctoral Research Fellow with Prof. Dr. E.-J. Wagenmakers at Psychological Methods, University of Amsterdam, the Netherlands.*

*2018. **PhD Researcher (cum laude)** “Bayes factors for research workers” supervised by Prof. Dr. E.-J. Wagenmakers on his “Bayes or Bust: Sensible Hypothesis Tests for Social Scientists”-project awarded by the European Research Council at Psychological Methods, University of Amsterdam, the Netherlands.*

*October 2017–September 2018 **Post-Doctoral Research Fellow** with Prof. Dr. E.-J. Wagenmakers at Psychological Methods, University of Amsterdam, the Netherlands, and Visiting Post-Doctoral Research Fellow with Prof. Dr. P.D. Grünwald at the Machine Learning Group, Centrum Wiskunde & Informatica, Amsterdam, the Netherlands.*

*2011. **MSc Researcher** with Prof. Dr. C.A.J. Klaassen, Korteweg-de Vries Institute for Mathematics, University of Amsterdam, the Netherlands.*

PROFESSIONAL
SERVICE

2020–2022. Co-Trial Statistician with Judith ter Schure “ALL-IN Meta-Analysis: BCG against SARS-CoV-2 severity”.

2017–2019. Member (research staff representative) of the UniversiteitsForum at the University of Amsterdam.

TEACHING

Lecturer:

- Guest lecturer for the research master Evidence Based Practice in Health Care subject “Capita Selecta” on “Bayesian Testing” at the Amsterdam Medical Centre, the Netherlands. (2018)
- Research master subject “Bayesian Graphical Modelling” at the University of Amsterdam, the Netherlands. (2016, 2014)
- Organiser and coordinator of “Statistical Learning Reading Seminar for Staff and PhDs” at the University of Amsterdam, the Netherlands. (2018, 2017, 2016)

- Bachelor subject “Basisvaardigheden wiskunde, statistiek en programmeren A” at the University of Amsterdam, the Netherlands. (2014, 2013)
- Research master subject “Calculus” at the University of Amsterdam, the Netherlands. (2014)

PhD Supervision:

- PhD students:
 - UvA: Johnny van Doorn (17th of June 2021), and Don van den Bergh (expected 2023) with E.-J. Wagenmakers.
 - CWI/Leiden: Yunda Hoa (expected 2024) with P.D. Grünwald.
- Unofficial PhD mentor:
 - UvA: Šimon Kucharský, Koen Derks.
 - CWI: Rosanne Turner, Judith ter Schure.

MSc Supervisor:

- Master thesis Daniel Heemann: “Bayes factors for the Cochran-Mantel-Haenszel test” at Leiden University, the Netherlands. (2019)
- Master thesis Šimon Kucharský: “Bayes factors for partial correlations and graphical models” at the University of Amsterdam, the Netherlands. (2018)
- Master thesis Alexandra Sarafoglou: “Bridge sampling” at the University of Amsterdam, the Netherlands. (2016). This led to publication [15]
- Master thesis Johnny van Doorn: “Bayesian inference for Kendall’s tau” at the University of Amsterdam, the Netherlands. (2015). This led to publication [24]
- Master internship project “Bayesian factor analysis” at the University of Amsterdam, the Netherlands. (2013)
- Master internship project “Advanced Programming” at the University of Amsterdam, the Netherlands. (2013)

Tutor

- Research master subject “Bayesian Graphical Modelling”, lecturer: Prof. Dr. E.-J. Wagenmakers, at the University of Amsterdam, the Netherlands. (2013)
- Research master subject “Calculus”, lecturer: Dr. R.P.P.P. Grasman, at the University of Amsterdam, the Netherlands. (2013)
- Research master subject “Programming Skills: R”, lecturer: Prof. Dr. H. van der Maas, at the University of Amsterdam, the Netherlands. (2013)

ORGANISATIONAL ACTIVITIES International Statistical Institute World Statistics Congress - 63rd

- 2021. Session organiser with Peter Grünwald: IPS112 Live Cumulative Meta-Analysis for a Better World. Invited speakers: Anne Lyngholm Sørensen, Mark Simmonds, Judith ter Schure, and discussant Alex Sutton (discussant).

Two-day workshop: “Theory and Practice of Bayesian Hypothesis Testing: A JASP Workshop” in Amsterdam

- 2016–2019. Supervising coordinator:
 - 50 participants, 27–28 August 2018.
 - 50 participants, 28–29 August, 2017.
 - 70 participants, August 22–23, 2016.

- **2015. Lead coordinator:**
 - 33 participants, 6–7 August, 2015.

One-week workshop “Annual JAGS and WinBUGS Workshop – Bayesian Modeling for Cognitive Science” in Amsterdam

- **2016–2019. Supervising coordinator:**
 - 37 participants, 26–30 August 2019.
 - 66 participants, 20–24 August 2018.
 - 40 participants, 21–25 August, 2017.
 - 65 participants, 15–19 August, 2016.
- **2013–2015. Lead coordinator:**
 - 51 participants, 10–14 August 2015.
 - 56 participants, 11–15 August 2014.
 - 50 participants, 12–16 August 2013.

Student organiser

- **2006–2007. Chair** reorganisation committee Students’ Society Bèta Gamma, UvA. In collaboration with the board I reorganised the students’ organisation for greater efficiency and transparency.
- **2005–2006. Chair** Bèta Gamma 10th anniversary committee, UvA. To celebrate ten years of Bèta Gamma, I coordinated a three-day conference on global problems, which was concluded with a benefit party. The money was donated to a charity who gave two Ghanese students the opportunity to study for a year.
- **2004–2006. Founding Chair** event committee Students’ Society Bèta Gamma, UvA. As founder of this committee I was mainly involved with infrastructure and training project managers to creatively organise events. Five events were organised each with 150 to 450 students in attendance.
- **2003–2004. Chair** freshers’ week committee Students’ Society Bèta Gamma, UvA. I led a team of seven in organising a three-day introduction trip for 55 first-year students.
- **2003–2005. Board Member** Education Committee Bachelor of Natural and Social Sciences, UvA. Main task was to discuss and evaluate the education programme with the associated lecturers.

AWARDS AND GRANTS

5. In 2021, for the project “Increasing Scientific Efficiency with Sequential Methods” I was awarded the Veni talent grant from the Netherlands Organisation for Scientific Research (NWO) of €280,000 euros for three years.
4. In 2018, I received a Junior Travel Support Grant of \$250 to attend the 2018 ISBA World Meeting awarded by the International Society of Bayesian Analysis and the Objective Bayes section.
3. In 2015, I received a Junior Travel Support Grant of \$500 for attending the 11th International Workshop on Objective Bayes Methodology in Valencia, Spain, awarded by the International Society of Bayesian Analysis and the Objective Bayes section.

2. In 2014, I received a Travel Grant of \$100 for my presentation at the 48th Annual Meeting of the Society of Mathematical Psychology in Newport Beach, United States, awarded by the Society of Mathematical Psychology.
1. In 2013, I received a Junior Travel Support Grant of \$350 for attending the 10th International Workshop on Objective Bayes Methodology at Duke University, United States, awarded by the International Society of Bayesian Analysis and the Objective Bayes section.

EDUCATION

2012–2017. **Doctor of Philosophy**, dissertation: “Bayes factors for research workers” at Psychological Methods, University of Amsterdam, the Netherlands. Committee members: Eric-Jan Wagenmakers (promotor), Maarten Marsman (co-promotor), Michael Lee (UC Irvine), Jim Berger (Duke University), Peter Grünwald (CWI), Han van der Maas (UvA), Lourens Waldorp (UvA), and Raoul Grasman (UvA). Defended on the 19th of January 2018, and received the title **cum laude**.

2009–2011. **Master of Science degree in Mathematics**, thesis: “Efficient Estimators in Semiparametric Transformation Models”, Thesis supervisor: Prof. Dr. C.A.J. Klaassen, Korteweg-de Vries Institute for Mathematics, University of Amsterdam, the Netherlands.

2010. **Exchange semester at the University of Melbourne, Australia**. Subjects: “Mathematics of Risk”, “Statistical Inference”, “Random Walks and Random Structures” and “Advanced Complex Analysis”.

2003–2008. **Bachelor of Science degree in Natural and Social Science – Major Mathematics**. major thesis: “Multirate numerical integration for ordinary differential equations” supervised by Dr. J.H. Brandts, Korteweg-de Vries Institute for Mathematics, University of Amsterdam, the Netherlands. General thesis: “The maths behind the music: Music, mathematics and psychology”, Prof. Dr. A.W. Schram, Institute for Interdisciplinary Studies, University of Amsterdam, the Netherlands.

ARTICLES

54. **JASP team** (2022). JASP (Version 0.16.3)[Computer software].
53. Pawel, S., **Ly, A.**, & Wagenmakers, E.–J. (2022). Evidential Calibration of Confidence Intervals. Manuscript submitted for publication.
52. **Ly, A.**, & Wagenmakers, E.–J. (2022). Measure-theoretic musings cannot salvage the Full Bayesian Significance Test: Rejoinder to Kelter. Manuscript submitted for publication.
51. Turner, R., **Ly, A.**, & Grünwald, P.D. (2021). Safe Tests and Always-Valid Confidence Intervals for contingency tables and beyond. *arXiv* preprint arXiv:2106.02693. Manuscript submitted for publication.
50. ter Schure, J., Perez-Ortiz, M.F., **Ly, A.**, Grünwald, P.D. (2020). The Safe Logrank Test: Error Control under Continuous Monitoring with Unlimited Horizon. *arXiv* preprint arXiv:2011.06931. Manuscript submitted for publication.
49. Dablander, F., van den Bergh, D., Wagenmakers, E.–J., & **Ly, A.** (2020). Default Bayes Factors for Testing the (In)equality of Several Population Variances. Manuscript submitted for publication.
48. **Ly, A.**, & Wagenmakers, E.–J. (In press). Bayes Factors for Peri-Null Hypotheses. *Test*. Manuscript accepted for publication.

47. Wagenmakers, E.-J., & **Ly, A.** (in press). History and nature of the Jeffreys-Lindley paradox. *Archive for History of Exact Sciences*. Manuscript accepted for publication.
46. **Ly, A.**, Wagenmakers, E.-J. (in press). A Critical Evaluation of the FBST test for Bayesian Hypothesis Testing. *Computational Brain & Behavior*. Manuscript accepted for publication.
45. Temp, A. G. M., **Ly, A.**, van Doorn, J., Wagenmakers, E.-J., Tang, Y., Lutz, M. W., & Teipel, S. (in press). A Bayesian perspective on Biogen's Aducanumab trial. *Alzheimer's & Dementia*. Manuscript accepted for publication.
44. Heck, D., Boehm, U., Böning-Messing, F., Bürkner, P., Derks, K., Dienes, Z., Fu, Q., Gu, X., Karimova, D., Kiers, H. A. L., Klugkist, I., Kuipers, R. M., Lee, M. D., Leenders, R., Leplaa, H. J., Linde, M., **Ly, A.**, Meijerink-Bosman, M., Moerbeek, M., Mulder, J., Palfi, B., Schönbrodt, F. D., Tendeiro, J. N., van den Bergh, D., van Lissa, C., van Ravenzwaaij, D., Vanpaemel, W., Wagenmakers, E.-J., Williams, D. R., Zondervan-Zwijenburg, M., & Hoijtink, H. (In press). A Review of Applications of the Bayes Factor in Psychological Research. *Psychological Methods*. Manuscript accepted for publication.
43. Sarafoglou, A., Haaf, J. M., **Ly, A.**, Gronau, Q. F., Wagenmakers, E.-J., & Marsman, M. (In press). Evaluating multinomial order restrictions with bridge sampling. *Psychological Methods*. Manuscript accepted for publication.
42. Bartos, F., Gronau, Q. F., Timmers, B., Otte, W. M., **Ly, A.**, & Wagenmakers, E.-J. (2021). Bayesian Model-Averaged Meta-Analysis in Medicine. *Statistics in Medicine*, 40, 6743-6761.
41. van den Bergh, D., Clyde, M. A., Gupta, A.R.K.N., de Jong, T., Gronau, Q. F., Marsman, M., **Ly, A.**, Wagenmakers, E.-J. (2021). A Tutorial on Bayesian Multi-Model Linear Regression with BAS and JASP. *Behavior Research Methods*, 53, 2351-2371.
40. ter Schure, J., Grünwald, P.D. & **Ly, A.** (2021). Pandemic preparedness in data sharing; lessons learned from collaborating in a live meta-analysis, *STATOR*, 22, 47-52.
39. van Doorn, J., van den Bergh, D., Bohm, U., Dablander, F., Derks, K., Draws, T., Evans, N.J., Gronau, Q.F., Hinne, M., Kucharsky, S., Ly, A., Marsman, M., Matzke, D., Gupta, A.R.K.N., Sarafoglou, A., Stefan, A., Voelkel, J.G., & Wagenmakers, E.-J. (2021). The JASP Guidelines for Conducting and Reporting a Bayesian Analysis. *Psychonomic Bulletin & Review*, 28(3), 813-826.
38. Van den Bergh, D., Haaf, J.M., **Ly, A.**, Rouder, J.N., & Wagenmakers, E.-J. (2021). A Cautionary Note on Estimating Effect Size. *Advances in Methods and Practices in Psychological Science*, 4(1).
37. **Ly, A.**, van den Bergh, D., Bartos, F., & Wagenmakers, E.-J. (2021). Bayesian inference with JASP. *ISBA Bulletin*, 28(1), 7-15.
36. Weigard, A., Brislin, S.J., Cope, L.M., Hardee, J.E., Martz, M.E., **Ly, A.**, Zucker, R.A., Sripada, C., & Heitzeg, M.M. (2021). Evidence accumulation and associated error-related brain activity as computationally-informed prospective predictors of substance use in emerging adulthood. *Psychopharmacology*, 238(9), 2629-2644.
35. van Doorn, J., van den Bergh, D., Dablander, F., van Dongen, N., Derks, K., Evans, N. J., Gronau, Q. F., Haaf, J. M., Kunisato, Y., **Ly, A.**, Marsman, M.,

- Sarafoglou, A., Stefan, A., & Wagenmakers, E.-J. (2021). Strong Public Claims May Not Reflect Researchers? Private Convictions. *Significance*, 18(1), 44–45.
34. Faulkenberry, T. J., **Ly, A.**, & Wagenmakers, E.-J. (2020). Bayesian inference in numerical cognition: A tutorial using JASP. *Journal of Numerical Cognition*, 6(2), 231-259.
33. van den Bergh, D., van Doorn, J., Marsman, M., Draws, T., van Kesteren, E., Derks, K., Dablander, F., Gronau, Q. F., Kucharský, Š., Gupta, A. R. K. N., Sarafoglou, A., Voelkel, J. G., Stefan, A., **Ly, A.**, Hinne, M., Matzke, D., Wagenmakers, E.-J. (2020). A Tutorial on Conducting and Interpreting a Bayesian ANOVA in JASP. *L'Année Psychologique/Topics in Cognitive Psychology*, 120, 73–96.
32. Landy, J. F., Jia, M., Ding, I. L., Viganola, D., Tierney, W., Dreber, A., Johannesson, M., Pfeiffer, T., Ebersole, C. R., Gronau, Q. F., **Ly, A.**, van den Bergh, D., Marsman, M., Derks, K., Wagenmakers, E.-J., Proctor, A., Bartels, D. M., Bauman, C. W., Brady, W. J., Cheung, F., Cimpian, A., Dohle, S., Donnellan, M. B., Hahn, A., Hall, M. P., Jimenez-Leal, W., Johnson, D. J., Lucas, R. E., Monin, B., Montealegre, A., Mullen, E., Pang, J., Ray, J., Reinero, D. A., Reynolds, J., Sowden, W., Storage, D., Su, R., Tworek, C. M., Van Bavel, J. J., Walco, D., Wills, J., Xu, X., Yam, K. C., Yang, X., Cunningham, W. A., Schweinsberg, M., Urwitz, M., Crowdsourcing Hypothesis Tests Collaboration, T., & Uhlmann, E. L. (2020). Crowdsourcing Hypothesis Tests: Making transparent how design choices shape research results. *Psychological Bulletin*, 146(5), 451–479.
31. van Doorn, J., **Ly, A.**, Marsman, M., & Wagenmakers, E.-J. (2020). Bayesian latent-normal inference for the rank sum test, the signed rank test, and Spearman's ρ . *Journal of Applied Statistics*, 47(16), 2984–3006.
30. Giolla, E. M., & **Ly, A.** (2020). What to do with all these Bayes factors: How to make Bayesian reports in deception research more informative. *Legal and Criminological Psychology*, 25(2), 65–71.
29. **Ly, A.**, Stefan, A., van Doorn, J., Dablander, F., van den Bergh, D., Sarafoglou, A., Kucharský, Š., Derks, K., Gronau, Q. F., Raj, A., Boehm, U., van Kesteren, E.-J., Hinne, M., Matzke, D., Marsman, M., & Wagenmakers, E.-J. (2020). The Bayesian Methodology of Sir Harold Jeffreys as a Practical Alternative to the P-value Hypothesis Test. *Computational Brain & Behavior*, 3, 153–161.
28. Gronau, Q. F., **Ly, A.**, & Wagenmakers, E.-J. (2020). Informed Bayesian *t*-tests. *The American Statistician*, 74(2), 137–143.
27. Hutton, J. L., Diggle, P. J., Bird, S. M., Hennig, C., Longford, N., Mathur, M. B., Vander Weele, T. J., Ioannidis, J. P. A., Chai, C. P., Dowe, D. L., Ferguson, J., Fitz-Simon, N., Friede, T., Rover, C., Grieve, A. P., Kumar, K., **Ly, A.**, Mansmann, U., Mateu, J., Matthews, R. A. J. & 10 others, Neuenschwander, B., Zwahlen, M., Pericchi, L., Roes, K. C. B., Senn, S., Wagenmakers, E. M., Rice, K., Krakauer, C., Bonnett, T. & Held, L., (2020). Discussion on the meeting on ?Signs and sizes: understanding and replicating statistical findings? *Journal of the Royal Statistical Society. Series A (Statistics in Society)*, 183, 449–469.
26. **Ly, A.**, Etz, A., Marsman, M., & Wagenmakers, E.-J. (2019). Replication Bayes Factors from Evidence Updating. *Behavior Research Methods*, 51(6), 2498–2508.
25. van Doorn, J., **Ly, A.**, Marsman, M., & Wagenmakers, E.-J. (2019). Bayesian Estimation of Kendall's tau Using a Latent Normal Approach. *Statistics and Probability Letters*, 145, 268-272.

24. van Doorn, J., **Ly, A.**, Marsman, M., & Wagenmakers, E.-J. (2018). Bayesian inference for Kendall's rank correlation coefficient. *The American Statistician*, 72(4), 303–308.
23. Love, J., Selker, R., Marsman, M., Jamil, T. Dropmann, D., Verhagen, A.J., **Ly, A.**, Gronau, Q.F., Smira, M., Epskamp, S., Matzke, D., Wild, A., Knight, P., Rouder, J.N., Morey, R.D., & Wagenmakers, E.-J. (2019). JASP – Graphical statistical software for common statistical designs. *Journal of Statistical Software*, 88(2).
22. Haaf, J.M., **Ly, A.**, Wagenmakers, E.-J. (2019). Retire significance, but still test hypotheses. *Nature*, 567, 461.
21. Hu, C.-P., Kong, X.-Z., Wagenmakers, E.-J., **Ly, A.**, & Peng, K. (2018). The Bayes factor and its implementation in JASP: A practical primer. *Advances in Psychological Science*, 26, 951-965. [in Chinese]
20. **Ly, A.**, Raj, A., Etz, A., Marsman, M., Gronau, Q. F., & Wagenmakers, E.-J. (2018). Bayesian reanalyses from summary statistics: A guide for academic consumers. *Advances in Methods and Practices in Psychological Science*, 1(3), 367–374.
19. Wagenmakers, E.-J., Love, J., Marsman, M., Jamil, T., **Ly, A.**, Verhagen, A. J., Selker, R., Gronau, Q. F., Dropmann, D., Boutin, B., Meerhoff, F., Knight, P., Raj, A., van Kesteren, E.-J., van Doorn, J., Smira, M., Epskamp, S., Etz, A., Matzke, D., Rouder, J. N., & Morey, R. D. (2018). Bayesian inference for psychology. Part II: Example applications with JASP. *Psychonomic Bulletin & Review*, 25, 58–76.
18. Wagenmakers, E.-J., Marsman, M., Jamil, T., **Ly, A.**, Verhagen, A. J., Love, J., Selker, R., Gronau, Q. F., Smira, M., Epskamp, S., Matzke, D., Rouder, J. N., Morey, R. D. (2018). Bayesian inference for psychology. Part I: Theoretical advantages and practical ramifications. *Psychonomic Bulletin & Review*, 25, 35–57.
17. **Ly, A.**, Marsman, M., & Wagenmakers, E.-J. (2018). Analytic posteriors for Pearson's correlation coefficient. *Statistica Neerlandica*, 72, 4–13.
16. Jamil, T., Marsman, M., **Ly, A.**, Morey, R. D., & Wagenmakers, E.-J. (2017). What are the odds? Modern relevance and Bayes factor solutions for MacAlister's problem from the 1881 Educational Times. *Educational and Psychological Measurement*, 77, 819–830.
15. Gronau, Q. F., Sarafoglou, A., Matzke, D., **Ly, A.**, Boehm, U., Marsman, M., Leslie, D. S., Forster, J. J., Wagenmakers, E.-J., & Steingroever, H. (2017). A tutorial on bridge sampling. *Journal of Mathematical Psychology*, 81, 80–97.
14. Matzke, D., **Ly, A.**, Selker, R., Weeda, W. D., Scheibehenne, B., Lee, M. D., & Wagenmakers, E.-J. (2017). Bayesian inference for correlations in the presence of measurement error and estimation uncertainty. *Collabra: Psychology*, 3(1), 25.
13. **Ly, A.**, Marsman, M., Verhagen, A. J., Grasman, R. P. P. P., Wagenmakers, E.-J. (2017). A tutorial on Fisher information. *Journal of Mathematical Psychology*, 80, 40–55.
12. Keuken, M. C., **Ly, A.**, Boekel, W. E., Wagenmakers, E.-J. , Belay, L., Verhagen, A. J., Brown, S. D., & Forstmann, B. U. (2017). Corrigendum for: A purely confirmatory replication study of structural brain-behavior correlations. *Cortex*, 93, 229–233.

11. Jamil, T., **Ly, A.**, Morey, R. D., Love, J., Marsman, M., & Wagenmakers, E.-J. (2017). Default “Guel and Dickey” Bayes factors for contingency tables. *Behavior Research Methods*, *49*, 638–652.
10. Dutilh, G., Vandekerckhove, J., **Ly, A.**, Matzke, D., Pedroni, A., Frey, R., Rieskamp, J., & Wagenmakers, E.-J. (2017). A test of the diffusion model explanation for the worst performance rule using preregistration and blinding.
9. Marsman, M., **Ly, A.**, & Wagenmakers, E.-J. (2016). Four requirements for an acceptable research program. *Basic and Applied Social Psychology*, *38*, 308–312.
8. **Ly, A.**, Verhagen, A. J., & Wagenmakers, E.-J. (2016). An evaluation of alternative methods for testing hypotheses, from the perspective of Harold Jeffreys. *Journal of Mathematical Psychology*, *72*, 43–55.
7. **Ly, A.**, Verhagen, A. J., & Wagenmakers, E.-J. (2016). Harold Jeffreys’s default Bayes factor hypothesis tests: Explanation, extension, and application in psychology. *Journal of Mathematical Psychology*, *72*, 19–32.
6. Schweinsberg, M., Madan, N., Vianello, M., Sommer, S. A., Jordan, J., Tierney, W., Awtrey, E., Zhu, L., Diermeier, D., Heinze, J., Srinivasan, M., Tannenbaum, D., Bivolaru, E., Dana, J., Davis-Stober, C. P., Du Plessis, C. Gronau, Q. F., Hafenbrack, A. C., Liao, E. Y., **Ly, A.**, Marsman, M., Murase, T., Qureshi, I., Schaerer, M., Thornley, N., Tworek, C. M., Wagenmakers, E.-J., Wong, L., Anderson, T., Bauman, C. W., Bedwell, W. L., Brescoll, V., Canavan, A., Chandler, J. J., Cheries, E., Cheryan, S., Cheung, F., Cimpian, A., Clark, M., Cordon, D., Cushman, F., Ditto, P. H., Donahue, T., Frick, S. E., Gamez-Djokic, M., Hofstein Grady, R., Graham, J., Gu, J., Hahn, A., Hanson, B. E., Hartwich, N. J., Hein, K., Inbar, Y., Jiang, L., Kellogg, T., Kennedy, D. M., Legate, N., Luoma, T. P., Maibeucher, H., Meindl, P., Miles, J., Mislin, A., Molden, D. C., Motyl, M., Newman, G., Ngo, H. H., Packham, H., Ramsay, P. S., Ray, J. L., Sackett, A. M., Sellier, A.-L., Sokolova, T., Sowden, W., Storage, D., Sun, X., Van Bavel, J. J., Washburn, A. N., Wei, C., Wetter, E., Wilson, C., Darroux, S.-C., & Uhlmann, E. L. (2016). The pipeline project: Pre-publication independent replications of a single laboratory’s research pipeline. *Journal of Experimental Social Psychology*, *66*, 56–67. *Attention, Perception, & Psychophysics*, *79*, 713–725.
5. Wagenmakers, E.-J., Verhagen, A. J., & **Ly, A.** (2016). How to quantify the evidence for the absence of a correlation. *Behavior Research Methods*, *48*, 413–426.
4. Tierney, W., Schweinsberg, M., Jordan, J., Kennedy, D., Qureshi, I., Sommer, S. A., Thornley, N., Madan, N., Vianello, M., Awtrey, E., Zhu, L., Diermeier, D., Heinze, J., Srinivasan, M., Tannenbaum, D., Bivolaru, E., Dana, J., Davis-Stober, C., du Plessis, C., Gronau, Q. F., Hafenbrack, A., Liao, E., **Ly, A.**, Marsman, M., Murase, T., Schaerer, M., Tworek, C., Wagenmakers, E.-J., Wong, L., Anderson, T., Bauman, C., Bedwell, W., Brescoll, V., Canavan, A., Chandler, J., Cheries, E., Cheryan, S., Cheung, F., Cimpian, A., Clark, M., Cordon, D., Cushman, F., Ditto, P., Amell, A., Frick, S., Gamez-Djokic, M., Grady, R., Graham, J., Gu, J., Hahn, A., Hanson, B., Hartwich, N., Hein, K., Inbar, Y., Jiang, L., Kellogg, T., Legate, N., Luoma, T., Maibeucher, H., Meindl, P., Miles, J., Mislin, A., Molden, D., Motyl, M., Newman, G., Ngo, H. H., Packham, H., Ramsay, P. S., Ray, J., Sackett, A., Sellier, A.-L., Sokolova, T., Sowden, W., Storage, D., Sun, X., van Bavel, J., Washburn, A., Wei, C., Wetter, E., Wilson, C., Darroux, S.-C., & Uhlmann, E. (2016). Data from a pre-publication independent replication initiative examining ten moral judgement effects. *Scientific Data*, *3*, 160082.

3. Wagenmakers, E.-J., Beek, T., Rotteveel, M., Gierholz, A., Matzke, D., Steingroever, H., **Ly, A.**, Verhagen, A. J., Selker, R., Sasiadek, A., Gronau, Q. F., Love, J., & Pinto, Y. (2015). Turning the hands of time again: A purely confirmatory replication study and a Bayesian analysis. *Frontiers in Psychology: Cognition*, 6:494.
2. Love, J.P., Selker, R., Verhagen, A.J., Marsman, M., Gronau, Q.F., Jamil, T., Šmíra, M., Epskamp, S., Wild, A., **Ly, A.**, Matzke, M., Morey, R.D., Rouder, J.N. & Wagenmakers, E.-J. (2015). Software to sharpen your stats. *APS Observer*, 28, 27–29.
1. Wagenmakers, E.-J., Verhagen, A. J., **Ly, A.**, Bakker, M., Lee, M. D., Matzke, D., & Rouder, J. N. (2015). A power fallacy. *Behavior Research Methods*, 47, 913–917.

BOOK CHAPTERS

2. **Ly, A.**, Boehm, U., Heathcote, A., Turner, B. M. , Forstmann, B., Marsman, M., & Matzke, D. (2017). A flexible and efficient hierarchical Bayesian approach to the exploration of individual differences in cognitive-model-based neuroscience. In *Computational Models of Brain and Behavior* (A.A. Mousstafa Ed.), 467–480.
1. Wagenmakers, E.-J., Verhagen, A. J., **Ly, A.**, Matzke, D., Steingroever, H., Rouder, J. N., & Morey, R. D. (2017). The need for Bayesian hypothesis testing in psychological science. In Lilienfeld, S. O., & Waldman, I. (Eds.), *Psychological Science Under Scrutiny: Recent Challenges and Proposed Solutions*, 123–138, John Wiley and Sons.

PRESENTATIONS

5. **Ly, A.**, Boehm, U., Kucharský, Š., Szabo, B., Matzke, D., Heathcote, A (2020). Using latent network structures to link neurophysiology and behaviour. *Australian Mathematical Psychology*, Sydney, Australia.
4. **Ly, A.**, Šimon Kucharský, van den Bergh, D., Hinne, M., Marsman, M., & Wagenmakers, E.-J. (2018). Bayes factors for partial correlations. *Poster presentation: 2018 ISBA World Meeting*, Edinburgh, United Kingdom.
3. **Ly, A.**, Marsman, M., & Wagenmakers, E.-J. (2015). Jeffreys’s correlation test based on criteria of Bayarri, Berger, Forte, and Garcia-Donato (2012). *Poster presentation: 11th International Workshop on Objective Bayes Methodology*, Valencia, Spain
2. **Ly, A.**, Marsman, M., Epskamp, S., Matzke, D., Selker, R., Gronau, Q., Jamil, T., Steingroever, H., Love, J., & Wagenmakers, E.-J. (2015). Replications Bayes factors, *Mathematical Psychology Conference 2015*, Newport Beach, United States
1. **Ly, A.**, Verhagen, J., Matzke, D., Steingroever, H., & Wagenmakers, E.-J. (2013). Revisiting Edwards, Lindman, and Savage (1963): “Celebrating” 50 years of overestimating the evidence against the null. *Poster presentation: Objective Bayesian Statistics 2013*, Duke University, Durham, United States.

AD HOC REVIEWING

- Advances in Methods and Practices in Psychological Science
- Australian & New Zealand Journal of Statistics
- Bayesian Analysis
- Behavior Research Methods
- Bernoulli Journal
- British Journal of Mathematical and Statistical Psychology

- COLT: Conference on Learning Theory
- Computational Brain & Behavior
- Entropy
- Journal of Computational and Applied Mathematics.
- Journal of Mathematical Psychology
- PeerJ
- Probability in Engineering and Informational Sciences
- Psychonomic Bulletin & Review
- Psychological Methods
- Quantitative Methods for Psychology
- Scientific Data
- Statistical Methods in Medical Research
- Statistics and Probability Letters

MEMBERSHIPS

- Scientific member of the UniversityForum (University of Amsterdam, 2018)
- Member of the Objective Bayesian Statistics Section (International Society for Bayesian Analysis)
- Member of the Junior ISBA Section (International Society for Bayesian Analysis)
- Member of the Young Statisticians of the Dutch Society for Statistics and Operations Research
- Member of the Bernoulli Society
- Member of the Society of Mathematical Psychology

ADDITIONAL SKILLS

- Languages:
 - Dutch, Cantonese (mother tongue)
 - English (full proficiency)
 - German, French, Spanish (elementary proficiency)
- Computer skills:
 - R, Python, MatLAB, \LaTeX , JAGS (highly competent)
 - Objective-C, C (elementary knowledge)