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Current position

November 2015- Now: **Assistant professor in biostatistics** with a shared position between

- a research unit in biostatistics

[Section of Biostatistics](#), University of Copenhagen

Øster Farimagsgade 5, 1014 Copenhagen, Denmark

- a research unit in neuroscience

[Neurobiology Research Unit](#)

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where I do research in biostatistics along with a consulting activity in statistics and some teaching.

My research work is organized around three topics:

- the development of **multivariate models** for data analysis in neuroscience, mainly latent variable models (LVM) and mixed models (LMM) - see publications [Ebert et al. \[2019\]](#), [Stenbæk et al. \[2017\]](#), [Fisher et al. \[2017\]](#). From a methodological point of view, I study how to perform statistical **estimation and inference in small samples** [[Brice Ozenne et al., 2020a](#)] as well as efficient corrections for **multiple testing** [[Brice Ozenne et al., 2022](#)]. These developments are available in the R packages `lavaSearch2` (LVM) and `LMMstar` (LMM).
- the analysis of registry data in presence of **right-censoring**, **competing risks**, and **confounding competing risks**. A typical application is the comparison of preventive treatments of cardiovascular diseases [[Staerk et al., 2016, 2017b,a](#)]. Based on the **semi-parametric theory**, I have developed a robust estimator of the average treatment effect and derived its asymptotic distribution via its influence function [[Brice Ozenne et al., 2020b](#)]. This has been implemented in the `ate` function of the `riskRegression` R package.

- the extension of **generalized pairwise comparisons** (GPC) to right-censoring [[Péron et al., 2016a](#)]. GPC is a method able to handle multiple and heterogeneous endpoints which is especially relevant to assess the benefit-risk balance of a treatment. A typical application is the evaluation of chemotherapies where jointly considering gains in survival and side effects is critical [[Péron et al., 2016b,c](#)]. I am now working on deriving the asymptotic distribution of some of the estimators implemented in the **BuyseTest** using the U-statistique theory.

Other domains of interest in statistics:

- Smoothing splines and functional data analysis
- Causal inference and dynamic treatment regimes
- Post-selection inference

Skills

Language

French (native language), english (fluent), danish (intermediate), basics in italian.

Software

Proficient in **R**, **L^AT_EX** and [orgmode](#).

Basic knowledge but common use of C++, lisp (for [GNU Emacs](#)) and git/github (via [magit](#)).

Education and research carrier

2020 - 2015 : Post-doc in biostatistics with a shared position between:

University of Copenhagen: researcher and teacher at the Graduate School of Health and Medical Sciences

Copenhagen University Hospital: consultant and leader of the data analysis workpackage of the [Neuropharm](#) project

Development of LVM for analysing brain data ([lavaSearch2](#) package) and robust estimators of treatment effect for registry data analysis (R package [riskRegression](#))

2012 - 2015 : Ph.D. in biostatistics, University Lyon 1, Lyon, France.

Thesis Title: [Statistical modelling for the prognosis of stroke patients](#).

Advisor: Pr. Delphine Maucourt-Boulch and Pr. Norbert Nighoghossian

2011 - 2012 : Master's degree in biostatistics ([M2 B3S](#)), University Lyon, Lyon, France.

Carried out in double degree with the École Centrale de Lyon.

2009 - 2012 : Engineering diploma from the École Centrale de Lyon, Lyon, France.

Erasmus at Politecnico di Milano (2nd semester 2011).

Teaching and supervision

Teaching (L : lecture, PC : practical classes)

2015 - 2020 : [Statistical analysis of repeated measurements](#) for Phd students in medical sciences (18h, PC).

2016 - 2017 : Structural Equation Models for Master students in statistics (2h, L).

2014 - 2015 : [Survival Analysis](#) for Master students in public health (18h, PC).

2013 - 2015 : [Bayesian statistics](#) for Master students in public health (6h, PC).

Pedagogical talks for researchers in neuroscience on specific statistical tools/issues:

- [Do we need more power?](#) (NRU Christmas Symposium 2017).
- [To adjust or not adjust, that is the question](#) (NRU Christmas Symposium 2018).
- [A refresher on multiple comparisons?](#) (NRU Christmas Symposium 2019).

Co-supervision of **master 2** student:

2014 : Ceren Tozlu

Comparison of classification methods for tissue outcome after ischemic stroke [[Tozlu et al., 2019](#)].

2019 : Alice Brouquet-Laglaire

Comparison of inference methods for generalized pairwise comparisons.

Grants

2017-2019: MARIE CURIE Individual Fellowships (200 000€, EU H2020-MSCA-IF-2016 746850)

2017-2020: Lundbeck Fellowships (140 000€, R231-2016-3236)

Publications (methodological)

Published:

1. Thomas H Scheike, Torben Martinussen, and **Brice Ozenne**. Efficient estimation in the fine and gray model. *Journal of the American Statistical Association*, pages 1–9, 2022. URL <https://doi.org/10.1080/01621459.2022.2057860>
2. **Brice Ozenne**, Esben Budtz-Jørgensen, and Sebastian Elgaard Ebert. Controlling the familywise error rate when performing multiple comparisons in a linear latent variable model. *Computational Statistics*, pages 1–23, 2022. URL <https://doi.org/10.1007/s00180-022-01214-7>
3. **Brice Ozenne**, Esben Budtz-Jørgensen, and Julien Péron. The asymptotic distribution of the net benefit estimator in presence of right-censoring. *Statistical Methods in Medical Research*, 30(11):2399–2412, 2021
4. Julien Péron, Maryam Idlhaj, Delphine Maucourt-Boulch, Joris Giai, Pascal Roy, Laurence Collette, Marc Buyse, and **Brice Ozenne**. Correcting the bias of the net benefit estimator due to right-censored observations. *Biometrical Journal*, 63(4):893–906, 2021. URL <https://doi.org/10.1002/bimj.202000001>
5. Eva Cantagallo, Mickaël De Backer, Michal Kicinski, **Brice Ozenne**, Laurence Collette, Catherine Legrand, Marc Buyse, and Julien Péron. A new measure of treatment effect in clinical trials involving competing risks based on generalized pairwise comparisons. *Biometrical Journal*, 63(2):272–288, 2021. URL <https://doi.org/10.1002/bimj.201900354>
6. **Brice Ozenne**, Patrick Fisher, and Esben Budtz-Jørgensen. Small sample maximum likelihood inference in latent variable models. *JRSS-C*, 2020a. URL <https://doi.org/10.1111/rssc.12414>
7. Johan Verbeeck, **Brice Ozenne**, and William N Anderson. Evaluation of inferential methods for the net benefit and win ratio statistics. *Journal of Biopharmaceutical Statistics*, pages 1–18, 2020. URL <https://doi.org/10.1080/10543406.2020.1730873>
8. **Brice Ozenne**, Thomas Harder Scheike, Laila Stærk, and Thomas Alexander Gerds. On the estimation of average treatment effects with right-censored time to event outcome and competing risks. *Biometrical Journal*, (Epub ahead of print), 2020b. URL <https://doi.org/10.1002/bimj.201800298>
9. Martin Nørgaard, **Brice Ozenne**, Claus Svarer, Stephen C. Strother, Vibe G. Frokjaer, Gitte M. Knudsen, and Melanie Ganz. Preprocessing, prediction and significance:

Framework and application to brain imaging. *Information Processing in Medical Imaging (IPMI) conference 2019*, 2019. URL
https://link.springer.com/chapter/10.1007/978-3-030-32251-9_22

10. **Brice Ozenne**, Anne Lyngholm Sørensen, Thomas Scheike, Christian Torp-Pedersen, and Thomas Alexander Gerds. riskregression: Predicting the risk of an event using cox regression models. *R Journal*, 9(2):440–460, 2017. URL
<https://journal.r-project.org/archive/2017/RJ-2017-062/index.html>
11. Julien Péron, Marc Buyse, **Brice Ozenne**, Laurent Roche, and Pascal Roy. An extension of generalized pairwise comparisons for prioritized outcomes in the presence of censoring. *Statistical methods in medical research*, 27(4):1230–1239, 2016a. URL
<https://doi.org/10.1177%2F0962280216658320>
12. **Brice Ozenne**, Fabien Subtil, and Delphine Maucort-Boulch. The precision–recall curve overcame the optimism of the receiver operating characteristic curve in rare diseases. *Journal of clinical epidemiology*, 68(8):855–859, 2015b. URL
<https://doi.org/10.1016%2Fj.jclinepi.2015.02.010>
13. **Brice Ozenne**, Fabien Subtil, Leif Østergaard, and Delphine Maucort-Boulch. Spatially regularized mixture model for lesion segmentation with application to stroke patients. *Biostatistics*, 16(3):580–595, 2015c. URL
<https://doi.org/10.1093%2Fbiostatistics%2Fkxv004>

Software development

Packages for the R software:

- **BuyseTest** (author and maintainer): implementation of generalized pairwise comparisons, including recent developments to handle right-censoring [Péron et al., 2016a, 2021]. Available on CRAN and on Github.
- **lavaSearch2** (author and maintainer): Inference and diagnostic tools for latent variable models. Methodology described in [Brice Ozenne et al., 2020a] and [Brice Ozenne et al., 2022]. Available on CRAN and on Github. .
- **LMMstar** (author and maintainer) : linear mixed model via covariance structure (marginal formulation). Inference in small sample, test linear and non-linear combinations of parameters, multiple comparisons adjustment. Disponible sur le CRAN et sur Github. .
- **riskRegression** (contributor): computation of absolute risks and average treatment effects. Methodology described in [Brice Ozenne et al., 2017] and [Brice Ozenne et al., 2020b]. Available on CRAN and on Github.

Package for [emacs](#):

- **emacs-config** (author and maintainer) : Configuration files for emacs to ease the interaction with R/C++/orgmode/latex/git. Disponible on [Github](#).

Publications (clinical applications)

14. Arafat Nasser, **Brice Ozenne**, Emma Sofie Høgsted, Peter Steen Jensen, and Vibe G Frokjaer. Reliability of three versus five saliva sampling times for assessing the cortisol awakening response. *Psychoneuroendocrinology*, page 105950, 2022. URL <https://doi.org/10.1016/j.psyneuen.2022.105950>
15. Sophia Armand, **Brice Ozenne**, Nanna Svart, Vibe G Frokjaer, Gitte M Knudsen, Patrick M Fisher, and Dea S Stenbæk. Brain serotonin transporter is associated with cognitive-affective biases in healthy individuals. *Human brain mapping*, 43(13):4174–4184, 2022a. URL <https://doi.org/10.1002/hbm.25946>
16. Kristin Köhler-Forsberg, **Brice Ozenne**, Søren V Larsen, Asbjørn S Poulsen, Elizabeth B Landman, Vibeke H Dam, Cheng-Teng Ip, Anders Jørgensen, Claus Svarer, Gitte M Knudsen, et al. Concurrent anxiety in patients with major depression and cerebral serotonin 4 receptor binding. a neuropharm-1 study. *Translational psychiatry*, 12(1):1–8, 2022. URL <https://doi.org/10.1038/s41398-022-02034-5>
17. Sophia Armand, Mette K Wagner, **Brice Ozenne**, Jeanine Verbunt, Simone JS Sep, Selina K Berg, Gitte M Knudsen, and Dea S Stenbæk. Acute traumatic stress screening can identify patients and their partners at risk for posttraumatic stress disorder symptoms after a cardiac arrest: A multicenter prospective cohort study. *Journal of Cardiovascular Nursing*, 37(4):394–401, 2022b. URL <https://doi.org/10.1097/JCN.0000000000000829>
18. Sophia Armand, **Brice Ozenne**, Nanna Svart, Vibe G Frokjaer, Gitte M Knudsen, Patrick M Fisher, and Dea S Stenbæk. Brain serotonin transporter is associated with cognitive-affective biases in healthy individuals. *Human brain mapping*, 43(13):4174–4184, 2022a. URL <https://doi.org/10.1002/hbm.25946>
19. Patrick M Fisher, **Brice Ozenne**, Melanie Ganz, Vibe G Frokjaer, Vibeke NH Dam, Brenda WJH Penninx, Anajli Sankar, Kamilla Miskowiak, Peter S Jensen, Gitte M Knudsen, et al. Emotional faces processing in major depressive disorder and prediction of antidepressant treatment response: A neuropharm study. *Journal of Psychopharmacology*, page 02698811221089035, 2022. URL <https://doi.org/10.1177/02698811221089035>
20. Emily Eufaula Beaman, Anders Nissen Bonde, Sara Marie Ulv Larsen, **Brice Ozenne**, Terhi Johanna Lohela, Maiken Nedergaard, Gunnar Hilmar Gíslason, Gitte Moos Knudsen, and Sebastian Camillo Holst. Blood–brain barrier permeable β -blockers linked to lower risk of alzheimer’s disease in hypertension. *Brain*, 2022. URL <https://doi.org/10.1093/brain/awac076>

21. E Drummond, Wen McCulloch, Maria Zofia Grzywacz, Martin Korsbak Madsen, Peter Steen Jensen, **Brice Ozenne**, Sophia Armand, Gitte Moos Knudsen, Patrick MacDonald Fisher, and Dea Siggaard Stenbæk. Psilocybin-induced mystical-type experiences are related to persisting positive effects: A quantitative and qualitative report. *Frontiers in pharmacology*, 13, 2022. URL <https://doi.org/10.3389/fphar.2022.841648>
22. Søren Vinther Larsen, **Brice Ozenne**, Kristin Köhler-Forsberg, Asbjørn Seenithamby Poulsen, Vibeke Høyrup Dam, Claus Svarer, Gitte Moos Knudsen, Martin Balslev Jørgensen, and Vibe Gedso Frokjaer. The impact of hormonal contraceptive use on serotonergic neurotransmission and antidepressant treatment response: Results from the neuropharm 1 study. *Frontiers in endocrinology*, 13, 2022. URL <https://doi.org/10.3389/fendo.2022.799675>
23. Drummond E-Wen McCulloch, Martin Korsbak Madsen, Dea Siggaard Stenbaek, Sara Kristiansen, **Brice Ozenne**, Peter Steen Jensen, Gitte Moos Knudsen, and Patrick MacDonald Fisher. Lasting effects of a single psilocybin dose on resting-state functional connectivity in healthy individuals. *Journal of Psychopharmacology*, 36(1):74–84, 2022. URL <https://doi.org/10.1177/02698811211026454>
24. Cheng-Teng Ip, Melanie Ganz, Vibeke H. Dam, **Brice Ozenne**, Annia Rüesch, Kristin Köhler-Forsberg, Martin B. Jørgensen, Vibe G. Frokjaer, Birgitte Søgaaard, Søren R. Christensen, Gitte M. Knudsen, and Sebastian Olbrich. Neuropharm study: Eeg wakefulness regulation as a biomarker in mdd. *Journal of Psychiatric Research*, 141:57–65, 2021a. ISSN 0022-3956. URL <https://doi.org/10.1016/j.jpsychires.2021.06.021>
25. Martin K. Madsen, Dea S. Stenbæk, Albin Arvidsson, Sophia Armand, Maja R. Marstrand-Joergensen, Sys S. Johansen, Kristian Linnet, **Brice Ozenne**, Gitte M. Knudsen, and Patrick M. Fisher. Psilocybin-induced changes in brain network integrity and segregation correlate with plasma psilocin level and psychedelic experience. *European Neuropsychopharmacology*, 50:121–132, 2021. ISSN 0924-977X. URL <https://doi.org/10.1016/j.euroneuro.2021.06.001>
26. Maja Rou Marstrand-Joergensen, Martin K Madsen, Dea S Stenbæk, **Brice Ozenne**, Peter S Jensen, Vibe G Frokjaer, Gitte M Knudsen, and Patrick M Fisher. Default mode network functional connectivity negatively associated with trait openness to experience. *Social Cognitive and Affective Neuroscience*, 16(9):950–961, 04 2021. ISSN 1749-5016. URL <https://doi.org/10.1093/scan/nsab048>
27. Ida Marie Brandt, Kristin Köhler-Forsberg, Melanie Ganz, **Brice Ozenne**, Martin B. Jorgensen, Asbjorn Poulsen, Gitte M. Knudsen, Vibe G. Frokjaer, and Patrick M. Fisher. Reward processing in major depressive disorder and prediction of treatment response – neuropharm study. *European Neuropsychopharmacology*, 44:23–33, 2021. ISSN 0924-977X. URL <https://doi.org/10.1016/j.euroneuro.2020.12.010>
28. Dea Siggaard Stenbæk, Martin Korsbak Madsen, **Brice Ozenne**, Sara Kristiansen, Daniel Burmester, David Erritzoe, Gitte Moos Knudsen, and Patrick MacDonald Fisher. Brain

- serotonin 2a receptor binding predicts subjective temporal and mystical effects of psilocybin in healthy humans. *Journal of Psychopharmacology*, 35(4):459–468, 2021. URL <https://doi.org/10.1177/0269881120959609>. PMID: 33501857
29. Cheng-Teng Ip, Sebastian Olbrich, Melanie Ganz, **Brice Ozenne**, Kristin Köhler-Forsberg, Vibeke H. Dam, Sándor Beniczky, Martin B. Jørgensen, Vibe G. Frokjaer, Birgitte Søgaaard, Søren R. Christensen, and Gitte M. Knudsen. Pretreatment qeeg biomarkers for predicting pharmacological treatment outcome in major depressive disorder: Independent validation from the neuropharm study. *European Neuropsychopharmacology*, 49:101–112, 2021b. ISSN 0924-977X. URL <https://doi.org/10.1016/j.euroneuro.2021.03.024>
30. Stinne Høgh, Hanne Kristine Hegaard, Kristina Martha Renault, Eleonora Cvetanovska, Anette Kjærbye-Thygesen, Anders Juul, Camilla Borgsted, Anne Juul Bjertrup, Kamilla Woznica Miskowiak, Mette Skovgaard Væver, Dea Siggaard Stenbæk, Vibeke Høyrup Dam, Elisabeth Binder, **Brice Ozenne**, Divya Mehta, and Vibe G Frokjaer. Short-term oestrogen as a strategy to prevent postpartum depression in high-risk women: protocol for the double-blind, randomised, placebo-controlled mama clinical trial. *BMJ Open*, 11(12), 2021. ISSN 2044-6055. URL <http://dx.doi.org/10.1136/bmjopen-2021-052922>
31. Nakul Ravi Raval, Annette Johansen, Lene Lundgaard Donovan, Nídia Fernandez Ros, **Brice Ozenne**, Hanne Demant Hansen, and Gitte Moos Knudsen. A single dose of psilocybin increases synaptic density and decreases 5-ht_{2a} receptor density in the pig brain. *International Journal of Molecular Sciences*, 22(2), 2021. ISSN 1422-0067. URL <https://doi.org/10.3390/ijms22020835>
32. Emma Sofie Høgsted, Camilla Borgsted, Vibeke H. Dam, Arafat Nasser, Niklas Rye Jørgensen, **Brice Ozenne**, Dea Siggaard Stenbæk, and Vibe G. Frokjaer. Stress-hormone dynamics and working memory in healthy women who use oral contraceptives versus non-users. *Frontiers in Endocrinology*, 12, 2021. ISSN 1664-2392. URL <https://doi.org/10.3389/fendo.2021.731994>
33. Lene Lundgaard Donovan, Jens Vilstrup Johansen, Nídia Fernandez Ros, Elham Jaber, Kristian Linnet, Sys Stybe Johansen, **Brice Ozenne**, Shohreh Issazadeh-Navikas, Hanne Demant Hansen, and Gitte Moos Knudsen. Effects of a single dose of psilocybin on behaviour, brain 5-ht_{2a} receptor occupancy and gene expression in the pig. *European Neuropsychopharmacology*, 42:1–11, 2021. ISSN 0924-977X. URL <https://doi.org/10.1016/j.euroneuro.2020.11.013>
34. Christina J Y Lee, Anne Pernille Toft-Petersen, **Brice Ozenne**, Matthew Phelps, Jonas Bjerring Olesen, Patrick T Ellinor, Gunnar Gislason, Gregory Y H Lip, Christian Torp-Pedersen, and Thomas Alexander Gerds. Assessing absolute stroke risk in patients with atrial fibrillation using a risk factor-based approach. *European Heart Journal - Cardiovascular Pharmacotherapy*, 7(F11):f3–f10, 06 2020. ISSN 2055-6837. URL <https://doi.org/10.1093/ehjcvp/pvaa063>

35. Hanne Demant Hansen, Ulrich Lindberg, **Brice Ozenne**, Patrick MacDonald Fisher, Annette Johansen, Claus Svarer, Sune Høgild Keller, Adam Espe Hansen, and Gitte Moos Knudsen. Visual stimuli induce serotonin release in occipital cortex: A simultaneous positron emission tomography/magnetic resonance imaging study. *Human Brain Mapping*, 41(16):4753–4763, 2020. URL <https://doi.org/10.1002/hbm.25156>
36. Marie Spies, Arafat Nasser, **Brice Ozenne**, Peter S. Jensen, Gitte M. Knudsen, and Patrick M. Fisher. Common htr2a variants and 5-httlpr are not associated with human in vivo serotonin 2a receptor levels. *Human Brain Mapping*, 41(16):4518–4528, 2020. URL <https://doi.org/10.1002/hbm.25138>
37. S. V. Larsen, K. Köhler-Forsberg, V. H. Dam, A. S. Poulsen, C. Svarer, P. S. Jensen, G. M. Knudsen, P. M. Fisher, **Brice Ozenne**, and V. G. Frokjaer. Oral contraceptives and the serotonin 4 receptor: a molecular brain imaging study in healthy women. *Acta Psychiatrica Scandinavica*, 142(4):294–306, 2020. URL <https://doi.org/10.1111/acps.13211>
38. Christa Koll Thystrup, Signe Vangkilde, **Brice Ozenne**, and Dea Siggaard Stenbæk. Severity of self-reported depressive symptoms in a healthy sample is modulated by trait harm avoidance, not by 5-httlpr polymorphism. *Psychiatry Research*, 291:113029, 2020. ISSN 0165-1781. URL <https://doi.org/10.1016/j.psychres.2020.113029>
39. VH Dam, DS Stenbæk, K Köhler-Forsberg, C Ip, B Ozenne, BJ Sahakian, GM Knudsen, MB Jørgensen, and VG Frokjaer. Hot and cold cognitive disturbances in antidepressant-free patients with major depressive disorder: a neuropharm study. *Psychological Medicine*, pages 1–10, 2020x
40. Liv Vadskjær Hjordt, **Brice Ozenne**, Sophia Armanda, Vibeke H Dam, Christian Gaden Jensen, Köhler-Forsberg Kristin, Gitte M Knudsen, and Dea Siggaard Stenbæk. Psychometric properties of the verbal affective memory test-26 and evaluation of affective biases in major depressive disorder. *Frontiers in Psychology*, 11:961, 2020
41. Vincent Beliveau, **Brice Ozenne**, Stephen Strother, Douglas N Greve, Claus Svarer, Gitte Moos Knudsen, and Melanie Ganz. The structure of the serotonin system: A pet imaging study. *NeuroImage*, 205:116240, 2020. URL <https://doi.org/10.1016/j.neuroimage.2019.116240>
42. Martin Korsbak Madsen, Patrick MacDonald Fisher, Dea Siggaard Stenbæk, Sara Kristiansen, Daniel Burmester, Szabolcs Lehel, Tomas Páleníček, Martin Kuchař, Claus Svarer, **Brice Ozenne**, et al. A single psilocybin dose is associated with long-term increased mindfulness, preceded by a proportional change in neocortical 5-ht2a receptor binding. *European Neuropsychopharmacology*, 2020. URL <https://doi.org/10.1016/j.euroneuro.2020.02.001>
43. **Brice Ozenne**, Tae-Hee Cho, Irene Klærke Mikkelsen, Marc Hermier, Götz Thomalla, Salvador Pedraza, Pascal Roy, Yves Berthezène, Norbert Nighoghossian, Leif Østergaard, et al. Individualized quantification of the benefit from reperfusion therapy using stroke

- predictive models. *European Journal of Neuroscience*, 50(8):3251–3260, 2019. URL <https://doi.org/10.1111/ejn.14505>
44. Sebastian Elgaard Ebert, Per Jensen, **Brice Ozenne**, Sophia Armand, Claus Svarer, Dea Siggaard Stenbaek, Kirsten Moeller, Agnete Dyssegaard, Gerda Thomsen, Jacob Steinmetz, et al. Molecular imaging of neuroinflammation in patients after mild traumatic brain injury: a longitudinal 123i-clinde single photon emission computed tomography study. *European journal of neurology*, 26(12):1426–1432, 2019. URL <https://doi.org/10.1111/ene.13971>
45. Martin K Madsen, Patrick M Fisher, Daniel Burmester, Agnete Dyssegaard, Dea S Stenbæk, Sara Kristiansen, Sys S Johansen, Sczabolz Lehel, Kristian Linnet, Claus Svarer, **Brice Ozenne**, and Gitte Moos Knudsen. Psychedelic effects of psilocybin correlate with serotonin 2a receptor occupancy and plasma psilocin levels. *Neuropsychopharmacology*, page 1, 2019. URL <https://doi.org/10.1038/s41386-019-0324-9>
46. Ceren Tozlu, **Brice Ozenne**, Tae-Hee Cho, Norbert Nighoghossian, Irene Klærke Mikkelsen, Laurent Derex, Marc Hermier, Salvador Pedraza, Jens Fiehler, Leif Østergaard, et al. Comparison of classification methods for tissue outcome after ischaemic stroke. *European Journal of Neuroscience*, 50(10):3590–3598, 2019
47. Cheng-Teng Ip, Melanie Ganz, **Brice Ozenne**, Lasse B Sluth, Mikkel Gram, Geoffrey Viardot, Philippe l’Hostis, Philippe Danjou, Gitte M Knudsen, and Søren R Christensen. Pre-intervention test-retest reliability of EEG and ERP over four recording intervals. *International Journal of Psychophysiology*, 134:30–43, 2018. URL <https://doi.org/10.1016/j.ijpsycho.2018.09.007>
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49. Liv Vadskjær Hjordt, Vibeke H Dam, **Brice Ozenne**, Ida Hageman, Brenda Mc Mahon, Erik Lykke Mortensen, Gitte M Knudsen, and Dea Siggaard Stenbæk. Self-perceived personality characteristics in seasonal affective disorder and their implications for severity of depression. *Psychiatry research*, 262:108–114, 2018. URL <https://doi.org/10.1016%2Fj.psychres.2018.02.015>
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- dabigatran, rivaroxaban and apixaban for stroke prevention in atrial fibrillation: a nationwide cohort study. *Journal of Internal Medicine*, 283(1):45–55, 2017a. URL <https://doi.org/10.1111%2Fjoim.12683>
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57. Mette Thrane Foged, Ulrich Lindberg, Kishore Vakamudi, Henrik BW Larsson, Lars H Pinborg, Troels W Kjær, Martin Fabricius, Claus Svarer, **Brice Ozenne**, Carsten Thomsen, et al. Safety and eeg data quality of concurrent high-density eeg and high-speed fmri at 3 tesla. *PloS one*, 12(5):e0178409, 2017. URL <https://doi.org/10.1371%2Fjournal.pone.0178409>
58. Julien Péron, Pascal Roy, **Brice Ozenne**, Laurent Roche, and Marc Buyse. The net chance of a longer survival as a patient-oriented measure of treatment benefit in randomized clinical trials. *JAMA oncology*, 2(7):901, 2016b. URL <https://doi.org/10.1001%2Fjamaoncol.2015.6359>
59. Laila Staerk, Emil Loldrup Fosbøl, Gregory YH Lip, Morten Lamberts, Anders Nissen Bonde, Christian Torp-Pedersen, **Brice Ozenne**, Thomas Alexander Gerds, Gunnar Hilmar Gislason, and Jonas Bjerring Olesen. Ischaemic and haemorrhagic stroke

associated with non-vitamin k antagonist oral anticoagulants and warfarin use in patients with atrial fibrillation: a nationwide cohort study. *European heart journal*, page ehw496, 2016. URL <https://doi.org/10.1093%2Feurheartj%2Fehw496>

60. Julien Péron, Pascal Roy, Thierry Conroy, Françoise Desseigne, Marc Ychou, Sophie Gourgu-Bourgade, Trevor Stanbury, Laurent Roche, **Brice Ozenne**, and Marc Buyse. An assessment of the benefit-risk balance of folfirinox in metastatic pancreatic adenocarcinoma. *Oncotarget*, 7(50), 2016c. URL <https://doi.org/10.18632%2Foncotarget.12761>
61. **Brice Ozenne**, Tae-Hee Cho, Irene Klærke Mikkelsen, Marc Hermier, Lars Ribe, Götz Thomalla, Salvador Pedraza, Jean-Claude Baron, Pascal Roy, Yves Berthezène, et al. Evaluation of early reperfusion criteria in acute ischemic stroke. *Journal of Neuroimaging*, 25(6):952–958, 2015a. URL <https://doi.org/10.1111%2Fjon.12255>
62. Laure Hermitte, Tae-Hee Cho, **Brice Ozenne**, Norbert Nighoghossian, Irene Klærke Mikkelsen, Lars Ribe, Jean-Claude Baron, Leif Østergaard, Laurent Derex, Niels Hjort, et al. Very low cerebral blood volume predicts parenchymal hematoma in acute ischemic stroke. *Stroke*, 44(8):2318–2320, 2013. URL <https://doi.org/10.1161%2Fstrokeaha.113.001751>

Peer review

I have reviewed papers for Biometrics, Statistics in Medicine, and the International Journal of Biostatistics.

Oral communications

Oral presentation at international conferences:

- 2014 : Lesion Segmentation using a Spatially Regularized Mixture Model
[Applied Statistics](#), Ribno, Slovenia (slides)
- 2015 : MRIaggr : un package pour la gestion et le traitement de données multivariées d'imagerie
[Rencontres R](#), Grenoble, France (slides)
- 2016 : Penalized latent variable models
[Computational statistics](#), Oviedo, Spain (slides)
- 2017 : Assessing treatment effects on registry data in presence of competing risks
ISCB, Vigo, Spain (slides)
- 2019 : Generalized pairwise comparisons for right-censored time to event outcomes
[Survival analysis for junior researcher](#), Copenhagen, Denmark (slides)
- 2019 : Multiple testing in latent variable models
[ISCB](#), Leuven, Belgium (slides)

Invited speaker at an international conference:

2019 : Region-Based and Voxel-Wise Analysis of Medical Images Using Latent Variables
[7th NBBC](#), Vilnius, Lithuania

december 2020 : Robust estimation of the average treatment effects in presence of right-censoring
and competing risks
[CMStatistics](#), London, England

Chairman at international conferences:

2019 : Mathematical Statistics
[Survival analysis for junior researcher](#), Copenhagen, Denmark

Organisation of a workshop:

2021 : Analysis of repeated measurements with mixed models using the R package LMMstar (1h+3h)
Methods Week, Karolinska institute, Stockholm, Suède