Curriculum Vitae

Kaspar Rufibach, PhD
Biostatistician
`http://www.kasparrufibach.ch`

Last updated: 13th June 2025

Professional experience:

10/2024 –   Advanced Biostatistical Science, Clinical Measurement Sciences, Merck Healthcare (full time 90%, fully home-based)

- Co-leading this newly formed group.

- Develop fit-for-purpose methodology and software.

- Contribute to cross-industry and academic working groups.

- Mentoring interns.

- Provide trainings to Statisticians and non-Statisticians, in- and externally.

- Job titles: Head of advanced biostatistical sciences, Senior Director.

07/2015 – 07/2024   Methods, Collaboration, and Outreach group, Product Development Data Sciences, F. Hoffmann-La Roche Ltd, Basel, Switzerland (on 50% rotation from 07/2015 - 12/2016, full time 90% since 01/2017)

- Small group of statisticians serving as point of contact for methodological and drug development questions within Roche Biostatistics and beyond.

- Develop fit-for-purpose methodology and software.

- Contribute to cross-industry and academic working groups.

- Mentoring interns.

- Provide trainings to Statisticians and non-Statisticians, in- and externally.

- Job titles at Roche: Statistical Scientist (05/2012 - 03/2015), Senior Statistical Scientist (04/2015 - 03/2017), Principal Statistical Scientist (04/2017 - 05/2019), Senior Principal Statistical Scientist (06/2019 - 04/2020, not a promotion but a rebranding of Roche job titles), Expert Statistical Scientist (since 05/2020).

05/2012 – 12/2016	Trial and project statistician (full time until 02/2014, 90% since 03/2014), Biostatistics oncology, F. Hoffmann-La Roche Ltd, Basel, Switzerland

- Study statistician for a large Phase III registration trial in the GAZYVA development program. Biometrics subteam lead for global filing.
- Project lead statistician for MDM2(4): Planning of Phase 1 dose-finding and pivotal Phase III trial.

11/2007 – 12/2011	Lecturer in Biostatistics (100%), Division of Biostatistics, Institute of Social- and Preventive Medicine (ISPMZ), University of Zurich, Switzerland

- Methodological research in statistics.
- Teaching of biostatistics and medicine master students.
- Statistical consulting of medical researchers.

09/2006 – 08/2007	Postdoctoral scholar, Department of Statistics, Stanford University, Palo Alto, United States (Swiss National Science Foundation fellowship)

- Methodological research in statistics.
- Collaboration with neurologists.

03/2002 – 04/2006	Biostatistician (40%–50%), Swiss Group for Clinical Cancer Research (SAKK), Bern, Switzerland

- Statistician for Phase II / III oncology trials.

11/2000 – 08/2006	Research and Teaching Assistant (25–50%), Department of Mathematical Statistics and Actuarial Science (IMSV), University of Bern, Switzerland

- Methodological research in statistics.
- Teaching and mentoring students.
- Statistical consulting.

EDUCATION:

09/2006 – 08/2007	Postdoctoral scholar, Department of Statistics, Stanford University, Palo Alto, United States. Project: *Quantifying heterogeneity in flow cytometry measurements and applications of log-concave density estimation.* Collaborator: Prof. Günther Walther.
04/2002 – 05/2006	PhD in Mathematics (magna cum laude), Department of Mathematical Statistics and Actuarial Science, University of Bern, Switzerland and Institute of Mathematical Statistics, Georg-August-University, Göttingen, Germany. Thesis: *Log-concave density estimation and bump hunting for i.i.d. observations.* Advisors: Prof. Lutz Dümbgen (Bern) and Prof. Axel Munk (Göttingen).
10/1997 – 11/2001	Diploma in Statistics (cum laude), Minors in Mathematics and Economics, Department of Mathematical Statistics and Actuarial Science, University of Bern, Switzerland. Thesis: *Phase reconstructions for uniform distributions in $\mathbb{R}^d$ (in German).* Advisor: Prof. Henri Carnal.

01/12/21	Industry/University Cooperation Award. University of Ulm, prize awarded for long-term scientific collaboration between Jan Beyersmann (Prof. Biostatistics at University of Ulm) and Kaspar Rufibach (Roche).
01/08/11	Certificate of Distinction. Awarded by the journal "Skeletal Radiology" for that the quantity, timeliness, and quality of referee reports during 2010 was above and beyond the call of duty.
10/08/10	Certificate of Distinction. Awarded by the journal "Skeletal Radiology" to top 15% of referees for quality of referee reports during 2009.
25/01/10 – 29/01/10	Invitation to workshop "Statistical Issues in Prediction: What can be Learned for Individualized Predictive Medicine?". Mathematisches Forschungsinstitut, Oberwolfach, Germany.
06/11/06 – 10/11/06	Invitation to workshop "Qualitative Assumptions and Regularization in High-Dimensional Statistics". Mathematisches Forschungsinstitut, Oberwolfach, Germany.
04/12/06	Moser-Prize of the Institute of Mathematical Statistics and Actuarial Science, University of Bern. Awarded for the best Diploma or PhD thesis of the year 2006. SFr 1,000.
18/07/05 – 23/07/05	Participation in European young statisticians training camp, Oslo (50 participants selected out of 120). All expenses covered.

Cross-industry and academic working groups:

09/2023 -	EFSPI statistical methodology leaders (co-lead). *Initiator and co-lead together with Cornelia Kunz (Boehringer Ingelheim) and Mouna Akacha (Novartis).*
05/2022 -	NIHR-MRC Trials Methodology Research Partnership (TMRP) Outcomes Working Group: Adverse Events - evaluating harm (lead of estimand workstream). *Academia-industry working group with the goal of improving analysis of safety data in clinical trials.*
01/2018 -	Oncology estimand working group (initiator and leader). *Cross-industry working group initiated by Evgeny Degtyarev (Novartis) and myself, working on guidelines how to implement the ICH E9 addendum for time-to-event endpoints. Status as both, EFSPI scientific interest group and ASA biopharmaceutical section scientific working group. Working group webpage: www.oncoestimand.org.*
07/2017 -	Analysis of adverse events with varying follow-up times (member and member of the steering committee). *Working group with members from academia, industry, and regulators with the goal of evaluating different methods to analysis adverse events with varying follow-up times.*
04/2017 - 09/2018	Neuroscience estimand working group (member). *Working group with the goal of developing estimand strategies in neuroscience.*
06/2016 - 01/2018	RPACT, sub-working group of the AG Statistikleitertreffen of the German Region of the IBS (member). *Industry consortium supporting development of **rpact**, a R package implementing group-sequential and adaptive designs.*
11/2015 - 12/2022	EFSPI regulatory working group (member). *EFSPI special interest group: review of regulatory guidelines, collaboration with EFPIA, regular meetings with regulators.*

REFEREEING:

Online list of performed reviews (statistical journals only): Web of science

Reviewer for statistical journals
Annals of Applied Statistics (2011: 1), Annals of Statistics (2006: 1, 2011: 1), Biometrical Journal (2008: 1, 2010: 2, 2018: 1, 2019: 1, 2020: 1, 2022: 1, 2024: 1), Biometrika (2010: 1), BMC Medical Research Methodology (2023: 1), British Journal of Clinical Pharmacology (2022: 1), Computational Statistics and Data Analysis (2010: 1), Contemporary Clinical Trials (2023: 1), Electronic Journal of Statistics (2010: 1, 2012: 1), Journal of Biopharmaceutical Statistics: (2021: 2, 2022: 1), Journal of Nonparametric Statistics (2008: 1), Journal of Statistical Software (2011: 1), JRSS-C (2021: 1), Pharmaceutical Statistics (2017: 1, 2018: 2, 2019: 3, 2020: 5, 2021: 1, 2023: 1, 2024: 1), Scandinavian Journal of Statistics (2005: 1), Statistica Neerlandica (2009: 1), Statistica Sinica (2011: 1), Statistical Papers (2023: 1), Statistics in Medicine (2011: 1, 2017: 1, 2018: 2, 2021: 2, 2022: 2, 2023: 2), Statistics in Biopharmaceutical Research (2018: 1, 2019: 4, 2023: 3), The American Statistician (2022: 1), Therapeutic Innovation & Regulatory Science (2023: 1, 2024: 1), Trials (2025: 1), PLOS ONE (2018: 1).

External statistical expert for Skeletal Radiology
2008: 7 expertises. 2009: 10 expertises. 2010: 7 expertises. 2011: 2 expertises.

Statistical reviewer for medical journals
Anesthesiology (2023: 1), BMC Medicine (2020: 2), Contemporary Clinical Trials (2008: 1), Critical Care Medicine (2008: 1), European Journal of Endocrinology (2024: 1), Journal of Clinical Oncology (2024: 1), Trials (2021: 1).

Reviewer for funding agencies
Agence Nationale de la recherche, France (2023: 1), Netherlands Organisation for Scientific Research (2008: 1), Medical Research Council UK (2019: 1).

Reviewer book proposals
Chapman & Hall/CRC (2015: 1).

PROFESSIONAL SERVICE:

2025	ISCB46 conference in Basel: co-chair (with Mouna Akacha from Novartis) of organizing committee.
2024 -	EFSPI, council member.
2017-2019, 2023 -	EFSPI Regulatory Statistics Workshop, Basel: Member of scientific and local organizing committee.
2020 - 2022	EFSPI Regulatory Statistics Workshop: Lead of scientific and local organizing committee.
2019 -	Basel Biometric Section: Member of the board.
2017 -	Region Austria-Switzerland of the International Biometric Society: Accounting Auditor.
2023	ISCB44 Milan, Italy: Member of scientific committee.
2021	67th Biometric Colloquium of the German Region of International Biometric Society (IBS): Member of scientific committee.
2009	Swiss Statistics Meeting, Geneva: Member of organizing committee.

Professional Memberships:

International Biometric Society (IBS, Austro-Swiss Region), International Society for Clinical Biostatistics (ISCB), Swiss Statistical Society (SSS).

References:

Available upon request.