Curriculum Vitae

Keisuke Hanada

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Contact Information

- Name: Keisuke Hanada
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Working Experience

- **Apr. 2025-Present** Assistant Professor, Faculty of Medicine, Wakayama Medical University
- **Apr. 2024-Mar. 2025** Specially Appointed Assistant Professor (Full Time), Graduate School of Engineering Science, Osaka University
- **Apr. 2019-Feb. 2024** Biostatistician, Biometrics Department, Kyowa Kirin Co., Ltd.

Education

- **Apr. 2020-Mar. 2024** Ph.D. in Data Science, Graduate School of Data Science, Shiga University; supervisor, Prof. Tomoyuki Sugimoto
- **Apr. 2017-Mar. 2019** M.S. in Science, Graduate School of Science and Engineering, Kagoshima University; supervisor, Prof. Tomoyuki Sugimoto
- **Apr. 2013-Mar. 2017** B.Sc. in Science, Faculty of Science and Technology, Hirosaki University; supervisor, Prof. Kimitoshi Tsutaya

Grants and Funding

- **Apr. 2026-Mar. 2031** JSPS Grant-in-Aid for Early-Career Scientists, Principal Investigator
- **Jul. 2024-Mar. 2026** JSPS Grant-in-Aid for Research Activity Start-up, Principal Investigator
- **Apr. 2024-Mar. 2027** JSPS Grant-in-Aid for Scientific Research (C), Co-Investigator

Awards

- **2025** Best Presentation Award for Young Researcher (regular membership category), Annual Meeting of the Biometric Society of Japan

Teaching Experience

- **2025** Statistics Fundamentals, Wakayama Medical University
- **2025** Statistical Lectures, Regulatory Science Laboratory, Meiji Pharmaceutical University

Academic Service

- **Peer review** Academic journal reviewer
  - Japanese Journal of Statistics and Data Science
  - Journal of the Royal Statistical Society: Series C (Applied Statistics)
  - Journal of the Japan Statistical Society, Japanese Issue
  - BMC Medical Research Methodology
  - Research Synthesis Methods

Research Publications

Peer-Reviewed Methodological Articles

1. Hanada, K., & Kojima, M. (2026+). Integrate Meta-analysis into Specific Study (InMASS) for Estimating Target-Population Average Treatment Effect. *Biometrical Journal*, accepted. [arXiv]
2. Hanada, K., & Sugimoto, T. (2026+). Random-effects meta-analysis via generalized linear mixed models: A Bartlett-corrected approach for few studies. *Biometrics*, accepted. [arXiv, GitHub]
3. Hanada, K., & Kojima, M. (2026). Random Effect Restricted Mean Survival Time Model. *Journal of Biopharmaceutical Statistics*, 1-16. [paper, DOI, arXiv]
4. Kojima, M., Orihara, S., Hanada, K., & Ohigashi, T. (2026). Sample size re-estimation in blinded hybrid-control design using inverse probability weighting. *Statistics in Medicine*, 45(3-5), e70429. [paper, DOI, arXiv]
5. Kojima, M., Mano, H., Yamada, K., Hanada, K., Tanaka, Y., & Moriya, J. (2025). Adjusting confidence intervals under covariate-adaptive randomization in non-inferiority and equivalence trials. *Contemporary Clinical Trials*, 158, 108099. [paper, arXiv]
6. Hanada, K., & Sugimoto, T. (2024). Meta-Analysis for Time-to-event Outcome Based on Restored Individual Participant Data and Summary Statistics. *Japanese Journal of Biometrics*, 45(1), 115-131 (in Japanese). [paper, arXiv]
7. Hanada, K., Moriya, J., & Kojima, M. (2024). Comparison of baseline covariate adjustment methods for restricted mean survival time. *Contemporary Clinical Trials*, 138, 107440. [paper]
8. Hanada, K., & Sugimoto, T. (2023). Inference using an exact distribution of test statistic for random-effects meta-analysis. *Annals of the Institute of Statistical Mathematics*, 75(2), 281-302. [paper, DOI]

Clinical Research

1. Tamura, T., Matsumori, T., Nishikawa, Y., Kitagawa, K., Nagai, M., Shimizu, A., Matsumoto, I., Masuda, A., Sakai, A., Yamai, T., Tomokuni, A., Ikeura, T., Ito, T., Doi, T., Miyake, H., Maruyama, H., Ishikawa-Kakiya, Y., Ogura, T., Ueno, S., Shiomi, H., Tsujimoto, A., Shintani, S., Ikeda, T., Uenoyama, Y., Emori, T., Shimatani, M., Hanada, K., Kitano, M., & Takenaka, M. (2026). Impact of Stent Type on Surgical Outcomes in Pancreatic Cancer Patients Undergoing Preoperative Biliary Drainage. *Digestive Endoscopy*, 38(7). [paper, DOI]
2. Sagan, K., Kojima, F., Matsuzaki, I., Hanada, K., Musangile, F. Y., Nakamoto, T., Hayashi, H., Ohe, C., Ohashi, R., Nagashima, Y., Kohjimoto, Y., & Murata, S. I. (2026). Clear Cell Papillary Renal Cell Tumor Revisited: Comparison of Histologic and Immunohistochemical Profiles in Relation to VHL Allelic Status. *The American Journal of Surgical Pathology*.
3. Nakayama, Y., Kume, K., Baba, T., Ayaki, T., Hanada, K., Miyamoto, K., Inoue, N., Kawakami, H., & Ito, H. (2026). Neuropathological and Molecular Features Associated With a Heterozygous DNAJC7 Mutation in Amyotrophic Lateral Sclerosis. *Neuropathology and Applied Neurobiology*, 52(4), e70086.
4. Kitadani, J., Hayata, K., Goda, T., Tominaga, S., Fukuda, N., Nakai, T., Nagano, S., Hanada, K., & Kawai, M. (2026). Impact of intraoperative nerve integrity monitoring on recurrent laryngeal nerve paralysis in minimally invasive esophagectomy for esophageal cancer: a propensity score-matched analysis. *Surgical Endoscopy*, 1-10.
5. Itonaga, M., Ashida, R., Tamura, T., Yamashita, Y., Kawaji, Y., Shishimoto, T., Morishita, M., Hanada, K., Kojima, F., & Kitano, M. (2026). Comparison of Nanoliposomal Irinotecan Plus Fluorouracil/Leucovorin and S-1, Irinotecan, and Oxaliplatin as Second-Line Chemotherapy After Gemcitabine Plus Nab-Paclitaxel for Unresectable Pancreatic Cancer. *Journal of Hepato-Biliary-Pancreatic Sciences*, 1-11.
6. Hirano, S., Hanada, K., & Maeda, H. (2025). Potential surrogate endpoint for B-cell hematologic malignancy: A systematic review and meta-analysis. *Scientific Reports*, 15, 19300. [paper]

Submitted Manuscripts / Preprints

1. Hanada, K., & Kojima, M. (2026). Covariate-Adaptive Sample Size Re-estimation for Population-Standardized Historical Control Designs in Single-Arm Trials. *arXiv preprint* arXiv:2607.25159, submitted. [arXiv]
2. Hanada, K., Shimokawa, T., & Maruo, K. (2026). Differentially Private One-Shot Federated Inference for Linear Mixed Models via Lossless Likelihood Reconstruction. *arXiv preprint* arXiv:2604.00410, submitted. [arXiv]
3. Yamada, K., Sunami, H., Takeda, K., Hanada, K., & Kojima, M. (2026). Hybrid Non-informative and Informative Prior Model-assisted Designs for Mid-trial Dose Insertion. *arXiv preprint* arXiv:2602.17995, submitted. [arXiv]
4. Kojima, M., Hanada, K., & Sato, A. (2025). A Clustering Approach for Basket Trials Based on Treatment Response Trajectories. *arXiv preprint* arXiv:2511.09890, submitted. [arXiv]
5. Hanada, K., & Kojima, M. (2024). Bayesian Parametric Methods for Deriving Distribution of Restricted Mean Survival Time. *arXiv preprint* arXiv:2406.06071, submitted. [arXiv]

Conference Presentations (International)

1. Hanada, K., Shimokawa, T., & Maruo, K. (2026). Privacy-Preserving One-Shot Federated Inference for Linear Mixed Models. *33rd International Biometric Conference*, Seoul. [event]
2. Hanada, K. (2026). Random-effects meta-analysis via generalized linear mixed models: A Bartlett-corrected approach for few studies. *Recent Advances in Meta-Analysis 2026*, Göttingen. [event]
3. Hanada, K., & Sugimoto, T. (2025). Random-effects meta-analysis via generalized linear mixed models for few studies. *The 13th Conference of the IASC-ARS*, Ho Chi Minh City. [oral]
4. Hanada, K., & Kojima, M. (2025). Integrate Meta-analysis into Specific Study for Estimating Conditional Average Treatment Effect. *Joint Statistical Meetings 2025*, Nashville. [poster]
5. Hanada, K., & Sugimoto, T. (2019). Non-Asymptotic Properties and Behaviors for Random-Effects Meta-Analysis When the Number of Studies Is Small. *The VI-th International Symposium on Biopharmaceutical Statistics*, Kyoto.

Conference Presentations (JPN Domestic)

1. Hanada, K. (2026). Survival Meta-Analysis by Integrating Kaplan-Meier Curves. *40th Annual Meeting of the Japanese Society of Computational Statistics*. [event]
2. Hanada, K., Shimokawa, T., & Maruo, K. (2026). Lossless One-Shot Federated Learning and Privacy Protection for Linear Mixed Models. *2026 Annual Meeting of the Biometric Society of Japan*. [event]
3. Hanada, K. (2026). Differentially private distributed regression analysis for linear mixed models. The 73rd Oita Statistical Meeting. [event]
4. Hanada, K., & Sugimoto, T. (2025). Inference for Generalized Linear Random-Effects Meta-Analysis with Few Studies. *KAKENHI Symposium: Comprehensive Exploration of Cross-Disciplinary Foundations and Practices in Data Science*. [oral]
5. Hanada, K. (2025). Generalized Linear Random-Effects Meta-Analysis with Few Studies. *2025 Japanese Joint Statistical Meeting*.
6. Hanada, K., & Kojima, M. (2025). Use of Meta-Analysis for Treatment Effect Estimation in Clinical Trials. *2025 Annual Meeting of the Biometric Society of Japan*.
7. Hanada, K., & Sugimoto, T. (2024). Joint Distribution of the Average Treatment Effect and Between-Study Variance in Meta-Analysis and Its Application. *7th Kagoshima Data Science Symposium*.
8. Hanada, K., & Kojima, M. (2024). Random Effect Restricted Mean Survival Time Model. *2024 Japanese Joint Statistical Meeting*.
9. Hanada, K., & Sugimoto, T. (2024). Variance Estimation in Meta-Analysis with Few Studies. *38th Annual Meeting of the Japanese Society of Computational Statistics*.
10. Hanada, K., & Sugimoto, T. (2023). Individual Participant Data Reconstruction and Meta-Analysis for Time-to-Event Outcomes. *5th Kagoshima Data Science Symposium*.
11. Hanada, K., Moriya, J., & Kojima, M. (2023). Comparison of Covariate Adjustment Methods for Restricted Mean Survival Time (RMST). *2023 Japanese Joint Statistical Meeting*.
12. Hanada, K. (2022). Inference for Binary Meta-Analysis with Few Events. *3rd Kagoshima Data Science Symposium*.

13. Hanada, K., & Sugimoto, T. (2019). Non-Asymptotic Properties of Random-Effects Meta-Analysis with Few Studies. *33rd Symposium of the Japanese Society of Computational Statistics*.
14. Hanada, K., & Sugimoto, T. (2018). Sampling Distribution in Random-Effects DerSimonian-Laird Stratified Analysis. *32nd Symposium of the Japanese Society of Computational Statistics*.
15. Hanada, K., & Sugimoto, T. (2018). Sampling Distribution in Random-Effects Stratified Analysis for Normal Populations. *57th Oita Statistical Meeting*.

Software

1. Hanada, K. (2026). metaGLMM. R package: meta-analysis using generalized linear mixed-effects models with aggregate data. [GitHub]
2. Hanada, K. (2024). rmstBayespara. R package: Bayesian Restricted Mean Survival Time for Cluster Effect. [CRAN]
3. Hanada, K. (2024). aedl. R package: Almost-Exact Inference for the DerSimonian-Laird Test Statistic. [CRAN]
4. Hanada, K. (2024). metaMest. R package: meta-analysis using an M-estimator-based approach. [GitHub]