Richard David Gill[1]

Professor Emeritus of Mathematical Statistics

Mathematical Institute, Leiden University
Email: gilli@math.leidenuniv.nl — Web: Richard D. Gill's Home Page

Home: Bosweg 25, 7314 AM Apeldoorn ; tell +31 6 2242 7127
Email: gill1109@gmail.com — Web: Richard Gill Statistics

Personal Details

- **Date of Birth:** 11 September 1951 (Redhill, Surrey, England)
- **Nationalities:** British, Dutch

Education

- **PhD in Mathematics** — Free University Amsterdam (1979)
  - *Thesis:* "Censoring and Stochastic Integrals"
- **Diploma of Statistics** — Cambridge University (1974)
- **B.A. in Mathematics** — Cambridge University (1973)

Academic Appointments

Leiden University

- **Professor Emeritus of Mathematical Statistics** (2017–Present)
- **Full Professor of Mathematical Statistics** (2006–2017)
- **Special Professor** (1983–1988)

Utrecht University

- **Chair in Mathematical Stochastics / Professor** (1988–2006)

Centrum Wiskunde & Informatica (CWI), Amsterdam

- **Head of the Department of Mathematical Statistics** (1983–1988)
- **Research Associate** (1974–1983)

Honours & Academy Memberships

- **Member:** Royal Netherlands Academy of Arts and Sciences (KNAW, elected 1999)
- **Fellow:** Institute of Mathematical Statistics (IMS, elected 1989)
- **Elected Member:** International Statistical Institute (ISI, 1984)
- **Distinguished Lorentz Fellow:** Netherlands Institute for Advanced Study (NIAS, 2010–2011)
- **President:** Netherlands Society for Statistics and Operations Research (VVSOR, 2007–2011)

Research Interests & Expertise

- **Mathematical & Quantum Statistics:** Quantum information theory, empirical processes, and event-time survival analysis.
- **Forensic Statistics & Legal Integrity:** Investigating structural defects and misuse of statistical models in healthcare serial killer profiles.

[1]**The small print**: This CV and publication list were compiled in haste using Google AI, 31 October 2026. I am checking and rechecking the data and it still contains errors. The main resource used by the AI was of course my Google Scholar listing, https://scholar.google.com/citations?user=yJj_DosAAAAJ&hl=en. You will see there that I have an H-index of 50 (50 papers authored or co-authored by myself have been cited 50 times or more; but the 51st most cited paper was cited less than 50 times). We statisticians refer to the Hirsch index as the age-index. It automatically increases with age. I'm presently one of the four most cited mathematicians in the Netherlands. We four are simply the oldest living academic mathematicians in this country.

- **Causality & Paradoxes:** Multi-stage causal inference, Bell's theorem, and foundational probability counter-narratives (e.g., Monty Hall problem).

Selected Legal Consulting & Advocacy

- **Lucia de Berk Case (Netherlands):** Co-led statistical evaluations against investigative fallacies, helping overturn a life sentence and achieve full exoneration in 2010.
- **Daniela Poggiali Case (Italy):** Advised on quantitative models under-representing chance variance, assisting her ultimate acquittal.
- **UK Medical Cases:** Actively tracking, reviewing, and identifying systematic flaws in cluster data patterns across various high-profile healthcare criminal rulings.
- **Foundation Science 4 Justice (NL)** President and co-founder of the Foundation science4justice.nl, mainly pro-bono work on legal cases in the Netherlands and world-wide, in which abuse of science and especially statistical science seems likely.

Selected Publications

References

[16] P J Green, R D Gill, N Mackenzie, J Mortera, and W C Thompson. Healthcare serial killer or coincidence? Statistical issues in investigation of suspected medical misconduct, September 2022.
Comment: a handbook written by a task group commissioned (in 2020) and published by the Royal Statistical Society in advance of the trial of Lucy Letby.
https://zenodo.org/records/18554033

[1] R D Gill. There to care; not to kill: medical settings, statistics and wrongful convictions. *arXiv preprint arXiv:2605.07421*, 2026.
Comment: invited contribution to an encyclopedia on miscarriages of justice, to be published by Routledge and edited by researchers at the Law Faculty, University of Aberystwyth (prepublication)..
https://arxiv.org/html/2605.07421v1

All Publications

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[1] R D Gill. There to care; not to kill: medical settings, statistics and wrongful convictions. *arXiv preprint arXiv:2605.07421*, 2026.

[2] R D Gill. Critique of "Use of roster charts in the investigation and prosecution of nurses" by John O'Quigley. *arXiv preprint arXiv:2606.29394*, 2026.

[3] R D Gill, Inge S Helland, and Bart Jongejan. Three ways to find comfort with the Bell proof and the results of the Bell experiments. *arXiv preprint arXiv:2605.13154*, 2026.

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[5] R D Gill. Optimal statistical analyses of Bell experiments. *AppliedMath*, 3(2):446–460, 2023.

[6] R D Gill. Comment on "Bell tests explained by classical optics without quantum entanglement" by Dean L. Mamas. *Physics Essays*, 36(1):87–89, 2023.

[7] R D Gill and Justo Pastor Lambare. Kupczynski's contextual locally causal probabilistic models are constrained by Bell's theorem. *Quantum Reports*, 5(2):481–495, 2023.

[8] Odd O Aalen, Per K Andersen, Ørnulf Borgan, R D Gill, and Niels Keiding. Martingales in survival analysis. In *The splendors and miseries of martingales: their history from the casino to mathematics*, pages 295–320. Springer International Publishing, Cham, 2022.

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[15] R D Gill. Quantum computation, data science, Bell games. *Harvard Data Science Review*, 4(1), 2022.

[16] P J Green, R D Gill, N Mackenzie, J Mortera, and W C Thompson. Healthcare serial killer or coincidence? Statistical issues in investigation of suspected medical misconduct, 2022. URL https://zenodo.org/records/18554033.

[17] Francesco Dotto, R D Gill, and Julia Mortera. Statistical analyses in the case of an italian nurse accused of murdering patients. *Law, probability and risk*, 20(3):169–193, 2021.

[18] R D Gill. Anna Karenina and the two envelopes problem. *Australian & New Zealand Journal of Statistics*, 63(1):201–218, 2021.

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