

## Richard Graham John Mills — CV and Biography

### Biography

I am an artist and researcher exploring the tipping point between representation and abstraction. My practice focuses on blocking, fragmentation, and the emergence of imagery from photographs and paintings, where figures become discoverable only through sustained looking. I work primarily in oils and acrylic, developing sequences of images that examine perception, the gaze, and multiple perspectives within a single surface. My practice builds on prior studies in mathematical physics and experience in research institutions, integrating artistic research with material experimentation.

### Education

1963–1967 — University of Adelaide — BSc, BSc (Hons), PhD (Mathematical Physics)

### Employment

2021–2025 — University of Western Australia — Student, School of Design

1991–2000 — CSIRO Mathematical and Information Science — Project Leader; Science and Industry Manager, Joint appointment with University of South Australia

1973–2000 — University of South Australia — Professor of Mathematics

### Funding

1992–1993 — Temperature volume profiles of petrol at service stations — Australian Institute of Petroleum

1991–1993 — Scheduling and control of trains — GIRD Grant — Australian Government

### Professional Service

1979–1984 — Secretary, Australian Society for Operations Research

### Bibliography (Selected Works)

- Ernst, A. T., Mills, R. G. J., Welgama, P. (2003). Scheduling Appointments at Trade Events for the Australian Tourist Commission. Interfaces.
- Mills, R. G. J. (2001). Production of locomotive rosters for a multi-class multi-locomotive problem. Journal of the Operational Research Society.
- Mills, R. G. J. (1989). Tuning of bells by a linear programming method. Journal of the Acoustical Society of America.
- Mills, R. G. J., Montroll, E. W. (1970). Quantum Theory on a Network II. Journal of Mathematical Physics.
- Mills, R. G. J., Hurst, C. A. (1969). Generalized Triangular Ising Lattice. Journal of Mathematical Physics.

- Welgama, P. S., Mills, R. G. J. (1995). Use of simulation in the design of a JIT system. International Journal of Operations & Production Management.
- Perkins, S., Mills, R. G. J. (1991). Nonlinear Programming Applied to the Dynamic Rescheduling of Trains.
- Mills, R. G. J. (1988). A road maintenance system.
- Mills, R. G. J. (1978). Depot Location.
- Mills, R. G. J. (1977). Editor, Proceedings of the Third National Conference of the Australian Society for Operations Research.

### Keywords

abstraction; perception; tipping point; entropy; structural similarity; art–science