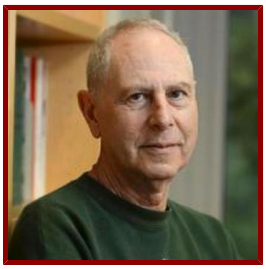
Stanford



Paul Switzer

Professor of Statistics and of Environmental Earth System Science, Emeritus

Curriculum Vitae available Online

Bio

BIO

Dr. Switzer's research interests are in the development of statistical tools for the environmental sciences. Recent research has focused on the interpretation of environmental monitoring data, design of monitoring networks, detection of time trends in environmental and climatic paramenters, modeling of human exposure to pollutants, statistical evaluation of numerical climate models and error estimation for spatial mapping.

ACADEMIC APPOINTMENTS

- Professor Emeritus-Hourly, Statistics
- Affiliate, Stanford Woods Institute for the Environment

Teaching

COURSES

2026-27

- Consulting Workshop: STATS 390 (Aut)

2025-26

- Consulting Workshop: STATS 390 (Aut)

2024-25

- Consulting Workshop: STATS 390 (Aut)

2023-24

- Consulting Workshop: STATS 390 (Aut)

Publications

PUBLICATIONS

- **Reassessing the relationship between ozone and short-term mortality in US urban communities** *INHALATION TOXICOLOGY*
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- **Observed 1970-2005 Cooling of Summer Daytime Temperatures in Coastal California** *JOURNAL OF CLIMATE*
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- **Outdoor air pollution in close proximity to a continuous point source** *ATMOSPHERIC ENVIRONMENT*

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- **Effect of interior door position on room-to-room differences in residential pollutant concentrations after short-term releases** *ATMOSPHERIC ENVIRONMENT*
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- **Error analysis for the evaluation of model performance: rainfall-runoff event summary variables** *HYDROLOGICAL PROCESSES*
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- **Real-time measurement of outdoor tobacco smoke particles** *JOURNAL OF THE AIR & WASTE MANAGEMENT ASSOCIATION*
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- **Stochastic space-time regional rainfall modeling adapted to historical rain gauge data** *WATER RESOURCES RESEARCH*
  Zhang, Z., Switzer, P.
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- **Evaluating detection of an inhalational anthrax outbreak** *EMERGING INFECTIOUS DISEASES*
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- **Filter-based classification of training image patterns for spatial simulation** *MATHEMATICAL GEOLOGY*
  Zhang, T., Switzer, P., Journel, A.
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- **An evaluation model for syndromic surveillance: assessing the performance of a temporal algorithm.** *MMWR. Morbidity and mortality weekly report*
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- **Error analysis for the evaluation of model performance: rainfall-runoff event time series data** *HYDROLOGICAL PROCESSES*
  Pebesma, E. J., Switzer, P., Loague, K.
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- **Merging prior structural interpretation and local data: The Bayes updating of multiple-point statistics** *Annual Conference of the International-Association-for-Mathematical-Geology*
  Zhang, T., Switzer, P., Journel, A.
  YORK UNIV.2005: 615–620
- **Sequential conditional simulation using classification of local training patterns** *7th International Geostatistics Congress*
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- **Mortality displacement and distributed lag models** *INHALATION TOXICOLOGY*
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