ACADEMIC APPOINTMENTS
• Sr Res Scientist-Physical, Department of Energy Resources Engineering

Publications

PUBLICATIONS
• Data-Informed Method of Distributions for Hyperbolic Conservation Laws  SIAM Journal on Scientific Computing
  Boso, F., Tartakovsky, D. M.
  2020; 42 (1): 25

• Method of distributions for quantification of geologic uncertainty in flow simulations Method of distributions for quantification of geologic uncertainty in flow simulations
  Yang, H. J., Boso, F., Tchelepi, H. A., Tartakovsky, D. M.
  2020

• Probabilistic Forecast of Single-Phase Flow in Porous Media With Uncertain Properties  WATER RESOURCES RESEARCH
  Yang, H., Boso, F., Tchelepi, H. A., Tartakovsky, D. M.
  2019

• Method of Distributions for Water Hammer Equations With Uncertain Parameters  WATER RESOURCES RESEARCH
  Alawadhi, A., Boso, F., Tartakovsky, D. M.
  2018; 54 (11): 9398–9411

• Information-Theoretic Approach to Bidirectional Scaling  WATER RESOURCES RESEARCH
  Boso, F., Tartakovsky, D. M.
  2018; 54 (7): 4916–28

• Probabilistic Forecasting of Nitrogen Dynamics in Hyporheic Zone  WATER RESOURCES RESEARCH
  Boso, F., Marzadri, A., Tartakovsky, D. M.
  2018; 54 (7): 4417–31

• The method of distributions for dispersive transport in porous media with uncertain hydraulic properties  WATER RESOURCES RESEARCH
  Boso, F., Tartakovsky, D. M.
  2016; 52 (6): 4700-4712

• A theoretical framework for modeling dilution enhancement of non-reactive solutes in heterogeneous porous media  JOURNAL OF CONTAMINANT HYDROLOGY
  de Barros, F. J., Fiori, A., Boso, F., Bellin, A.
  2015; 175: 72–83

• Cumulative distribution function solutions of advection-reaction equations with uncertain parameters  PROCEEDINGS OF THE ROYAL SOCIETY A-MATHEMATICAL PHYSICAL AND ENGINEERING SCIENCES
- **Homogenizability conditions for multicomponent reactive transport** *ADVANCES IN WATER RESOURCES*
  Boso, F., Battiato, I.
  2013; 62: 254-265

- **Performance analysis of statistical spatial measures for contaminant plume characterization toward risk-based decision making** *WATER RESOURCES RESEARCH*
  Boso, F., de Barros, F. J., Fiori, A., Bellin, A.
  2013; 49 (6): 3119–32

- **Numerical simulations of solute transport in highly heterogeneous formations: A comparison of alternative numerical schemes** *ADVANCES IN WATER RESOURCES*
  Boso, F., Bellin, A., Dumbser, M.
  2013; 52: 178–89

- **Mixing processes in highly heterogeneous formations**
  Boso, F., Bellin, A., Oswald, S. E., Kolditz, O., Attinger, S.
  INT ASSOC HYDROLOGICAL SCIENCES: 217–22

- **An indirect assessment on the impact of connectivity of conductivity classes upon longitudinal asymptotic macrodispersivity** *WATER RESOURCES RESEARCH*
  2010; 46