

# André Victor Ribeiro Amaral

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💻 [www.avramaral.com/](http://www.avramaral.com/)

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## Education

1. **Ph.D. in Statistics**, King Abdullah University of Science and Technology. From Fall, 2020 to PRESENT. Advised by Dr. Paula Moraga.
2. **M.S. in Statistics**, Universidade Federal de Minas Gerais. From 02/2019 to 06/2020. Advised by Dr. Roger Silva.  
*Dissertation title:* Phase Transition Phenomenon in Percolation Models using Boolean Functions (written in Portuguese). <https://github.com/avramaral/MSDissertation>.
3. **B.S. in Statistics**, Universidade Federal de Minas Gerais. From 02/2018 to 12/2018 (Interrupted due to the Master's Program admission).
4. **B.S. in Industrial Engineering**, Pontifícia Universidade Católica de Minas Gerais. From 02/2012 to 06/2018.
5. **Exchange Student** (by the “Science without Borders” Program), Curtin University. From 07/2016 to 12/2017.

## Teaching

1. **Teaching Assistant** in “Applied Statistics and Data Analysis” (DSA004). This was a four-day course given to ARAMCO employees in collaboration with King Abdullah University of Science and Technology. Summer, 2022. Advised by Dr. Paula Moraga. The material can be found in [https://avramaral.github.io/aramco\\_course/](https://avramaral.github.io/aramco_course/).
2. **Graduate Teaching Assistant** in “Contemporary Topics in Statistics” (STAT 294), King Abdullah University of Science and Technology. Fall, 2021. Advised by Dr. Paula Moraga. The material can be found in <https://avramaral.github.io/STAT294/>.
3. **Graduate Teaching Assistant** in “Applied Statistics with R” (STAT 215), King Abdullah University of Science and Technology. Fall, 2021. Advised by Dr. Joaquin Ortega.
4. **Graduate Teaching Assistant** in “Statistics and Probability” (EST 031), Universidade Federal de Minas Gerais. From 02/2020 to 06/2020. Advised by Dr. Cristiano Carvalho. The material (written in Portuguese) can be found in [avramaral.github.io/AulasEstProb/](https://avramaral.github.io/AulasEstProb/).

## Conference Presentations

1. **Talk and poster presentation** at “JSM 2022”. 08/2022. *Integrating Compartment and Point Process Models for Spatio-Temporal Modeling of Infectious Diseases*. The slides and poster can be found in <https://github.com/avramaral/JSM2022>.

2. **Talk** at “GeoEnv 2022”. 06/2022. *Spatio-temporal Point Process Compartment Modeling for Infectious Diseases*. The slides can be found in <https://github.com/avramaral/GE2022>.
3. **Poster presentation** at “METMA X”. 06/2022. *Assessing the Effect of Model-based Geostatistics Under Preferential Sampling for Spatial Data Analysis*. The poster can be found in <https://github.com/avramaral/METMAX>.
4. **Talk** at “ENAR 2022”. 03/2022. *Modeling Infectious Disease Dynamics: Integrating Contact Tracing-based Stochastic Compartment and Spatio-temporal Risk Models*. The slides can be found in <https://github.com/avramaral/ENAR2022>.
5. **Poster presentation** at “TWAS 15<sup>th</sup> General Conference”. 11/2021. *Modeling Infectious Disease Dynamics: Integrating Contact Tracing-based Stochastic Compartment and Spatio-temporal Risk Models*. The poster can be found in <https://github.com/avramaral/TWAS>.

## Participation and Attendance

1. 13<sup>th</sup> Summer Institute in Statistics and Modeling in Infectious Diseases (SISMID). 07/2021.  
I attended the following modules
  - 1.1. Module 7: Simulation-Based Inference for Epidemiological Dynamics.
  - 1.2. Module 9: Contact Network Epidemiology.
  - 1.3. Module 12: Statistics and Modeling with Novel Data Streams.
2. València International Bayesian Analysis Summer School, 4<sup>th</sup> Edition (VIBASS4). 07/2021.
3. Duke Machine Learning Virtual Summer School 2021. 06/2021.