Andres Alban

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EDUCATION

Ph.D. INSEAD, Technology and Operations Management (expected 2021)

M.S. INSEAD, M.S. in Management (2018)
GPA: 3.9

B.S. New Jersey Institute of Technology, double major in applied mathematics and physics (2016)
Albert Dorman Honors College, GPA: 4.0

RESEARCH INTERESTS

Healthcare, Clinical Trials, Stochastic Simulation, Stochastic Optimization

JOURNAL PUBLICATIONS

- Alban, A., Chick, S. E., Dongelmans, D. A., Vlaar, A. P. J., and Sent, D. (2020a). ICU capacity management during the covid - 19 pandemic using a process simulation. *Intensive Care Medicine*
- Alban, A., Darji, H. A., Imamura, A., and Nakayama, M. K. (2017). Efficient Monte Carlo methods for estimating failure probabilities. *Reliability Engineering and System Safety*, 165:376–394

CONFERENCE PROCEEDINGS

- Alban, A., Chick, S. E., and Forster, M. (2018). Extending a Bayesian decision-theoretic approach to value-based sequential clinical trial design. In *Proceedings of the 2018 Winter Simulation Conference*, pages 2459–2470
- Alban, A., Darji, H. A., Imamura, A., and Nakayama, M. K. (2016). Variance reduction for estimating a failure probability with multiple criteria. In *Proceedings of the 2016 Winter Simulation Conference*, pages 302–313

WORKING PAPERS

- Alban, A., Chick, S. E., and Forster, M. (2020b). Value-based clinical trials: selecting trial lengths and recruitment rates in different regulatory contexts. In submission to Management Science
- Alban, A., Chick, S. E., Lvova, O., and Sent, D. (2020c). A simulation model to evaluate the patient flow in an intensive care unit under different levels of specialization. To appear in Winter Simulation Conference 2020
- Forster, M., Brealey, S., Chick, S. E., Keding, A., Corbacho, B., Alban, A., and Rangan, A. (2019). Cost-effective clinical trial design: Application of a Bayesian sequential stopping rule to the profher pragmatic trial. In submission to Clinical Trials

CONFERENCE PRESENTATIONS

- A Value of Information Approach to Designing Sequential Clinical Trials for Personalized Health Care. With Stephen E. Chick and Spyros I. Zoumpoulis. *INFORMS Annual meeting 2019*.
- Fair and efficient? Capacity allocation of mobile family planning services in Uganda. With Philippe Blaettchen, Harwin de Vries, and Luk Van Wassenhove. *INFORMS Annual meeting 2019*.
- Personalized Fluid Management in Sepsis Using Transcriptomic Endotypes. With Stephen E. Chick, Spyros I. Zoumpoulis, Brendon P. Scicluna, Fabrice Uhel, and Alexander P.J. Vlaar. *INFORMS healthcare 2019*.
- Value-Based Clinical Trial Design to Account for Features of Pragmatic Trials. With Stephen E. Chick and Martin Forster. *POMS Annual conference 2019*.

- Extending a Bayesian Decision-Theoretic Approach to Value-Based Sequential Clinical Trials. With Stephen E. Chick and Martin Forster. *Winter Simulation Conference 2018*.

TEACHING

- Process and operations management core class for MBA students (online), INSEAD, Spring 2020
- Math tutorials for PhD students, INSEAD, Fall 2017.
- Math tutor and recitation assistant, NJIT Math Tutoring Center, 2013-2016.

GRANTS

- European Sepsis Academy, grant provided by the European Union, 2016-2019
- NJIT Provost's Undergraduate Summer Research program, 2014 and 2015

SKILLS

- Computer: Matlab, R, LaTex, Python
- Languages: Spanish (native), English (fluent), German (intermediate), French (basic)
- Sports: Tennis (played NCAA division I at NJIT), soccer, ultimate frisbee, touch rugby, basketball