


Stanford



Roozbeh Dehghannasiri

Postdoctoral Research Fellow, Biochemistry

 Curriculum Vitae available Online

Bio

PROFESSIONAL EDUCATION

- Doctor of Philosophy, Texas A&M University College Station (2016)
- Master of Applied Science(s), McMaster University (2012)
- Bachelor of Science, University Of Tehran (2010)

LINKS

- Google Scholar: https://scholar.google.com/citations?hl=en&user=zqRN1ZEAAAAJ&view_op=list_works&sortby=pubdate

Research & Scholarship

LAB AFFILIATIONS

- Julia Salzman, Salzman Lab (8/15/2017)

Publications

PUBLICATIONS

- **Improved detection of gene fusions by applying statistical methods reveals oncogenic RNA cancer drivers.** *Proceedings of the National Academy of Sciences of the United States of America*
Dehghannasiri, R., Freeman, D. E., Jordanski, M., Hsieh, G. L., Damljjanovic, A., Lehnert, E., Salzman, J.
2019
- **Ambiguous splice sites distinguish circRNA and linear splicing in the human genome** *BIOINFORMATICS*
Dehghannasiri, R., Szabo, L., Salzman, J.
2019; 35 (8): 1263–68
- **Intrinsically Bayesian Robust Kalman Filter: An Innovation Process Approach** *IEEE TRANSACTIONS ON SIGNAL PROCESSING*
Dehghannasiri, R., Esfahani, M. S., Dougherty, E. R.
2017; 65 (10): 2531-2546
- **Optimal Experimental Design for Gene Regulatory Networks in the Presence of Uncertainty** *IEEE-ACM TRANSACTIONS ON COMPUTATIONAL BIOLOGY AND BIOINFORMATICS*
Dehghannasiri, R., Yoon, B., Dougherty, E. R.
2015; 12 (4): 938-950
- **Towards precise and cost-effective fusion discovery: A landscape of druggable gene fusions across TCGA cancers**
Dehghannasiri, R., Jordanski, M., Freeman, D. E., Hsieh, G. L., Howard, J. M., Lehnert, E., Salzman, J.
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- **An experimental design framework for Markovian gene regulatory networks under stationary control policy.** *BMC systems biology*
Dehghannasiri, R., Shahrokh Esfahani, M., Dougherty, E. R.
2018; 12 (Suppl 8): 137

- **A Bayesian robust Kalman smoothing framework for state-space models with uncertain noise statistics** *EURASIP JOURNAL ON ADVANCES IN SIGNAL PROCESSING*
Dehghannasiri, R., Qian, X., Dougherty, E. R.
2018

- **Sequential Experimental Design for Optimal Structural Intervention in Gene Regulatory Networks Based on the Mean Objective Cost of Uncertainty** *CANCER INFORMATICS*
Imani, M., Dehghannasiri, R., Braga-Neto, U. M., Dougherty, E. R.
2018; 17: 1176935118790247

- **Optimal Bayesian Kalman Filtering With Prior Update** *IEEE TRANSACTIONS ON SIGNAL PROCESSING*
Dehghannasiri, R., Esfahani, M., Qian, X., Dougherty, E. R.
2018; 66 (8): 1982–96

- **Intrinsically Bayesian robust Karhunen-Loève compression** *Signal Processing*
Dehghannasiri, R., Qian, X., Dougherty, E. R.
2018; 144: 311-322

- **Optimal experimental design for materials discovery** *COMPUTATIONAL MATERIALS SCIENCE*
Dehghannasiri, R., Xue, D., Balachandran, P. V., Yousefi, M. R., Dalton, L. A., Lookman, T., Dougherty, E. R.
2017; 129: 311-322

- **Optimal experimental design in the context of canonical expansions** *IET Signal Processing*
Dehghannasiri, R., Qian, X., Dougherty, E. R.
2017; 11 (8): 942-951

- **Optimal Objective-Based Experimental Design for Uncertain Dynamical Gene Networks with Experimental Error.** *IEEE/ACM transactions on computational biology and bioinformatics*
Mohsenizadeh, D., Dehghannasiri, R., Dougherty, E.
2016: -?

- **Efficient experimental design for uncertainty reduction in gene regulatory networks** *BMC BIOINFORMATICS*
Dehghannasiri, R., Yoon, B., Dougherty, E. R.
2015; 16