

# Utsav Sadana

Assistant Professor | Department of Computer Science and Operations Research, University of Montréal

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3383 Pavilion André Aisenstadt, University of Montréal, H3T 1N8, QC, Canada

## Education

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**HEC Montréal, Montréal, Canada** Aug. 2017 – May 2021  
Ph.D., Management Science

**University of Illinois Urbana-Champaign (UIUC), USA** Sep. 2019 – Feb. 2020  
Visiting Ph.D. student

**Indian Institute of Technology Kanpur, India** Jul. 2012 – May 2017  
B.Tech., Materials Science and Engineering  
M.S., Economics

## Employment

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**University of Montréal** July 2023 -  
Assistant Professor, Department of Computer Science and Operations Research

**McGill University, Montréal, Canada**  
▪ Postdoctoral Fellow (FRQNT) June 2021 – June 2023  
▪ Lecturer May 2022 – June 2022

**ORT France, Paris** Summer 2015  
Research Intern

## Selected Awards and Honors

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- Teaching Excellence Award, Association of Postdoctoral Fellows, McGill University 2022
- Finalist for the “*Young Scholar Best Paper Award*” at ISDG, Porto, Portugal 2022
- GERAD Postdoctoral Fellowship 2021 – 2022
- FRQNT Postdoctoral Research Scholarship (B3X) 2021 – 2023
- PBEEE Quebec-India Doctoral Research Scholarship 2019 – 2021
- FRQNT Doctoral Research Scholarship (B2X) 2019 – 2021
- FRQNT International Internship Program for an internship at UIUC, Illinois 2018
- Fondation J.A. DeSève Bursary (PhD), HEC Montréal for academic excellence. 2018
- Graduate Research Award (MHRD, India) to pursue Masters at IIT Kanpur 2016
- Summer Research Scholarship, ORT France, Paris 2015

## Journal Papers

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1. U. Sadana and E. Delage, “*The value of randomized strategies in distributionally robust risk averse network interdiction problems*”, **INFORMS Journal on Computing**.
  - Featured Article

2. U. Sadana, P.V. Reddy and G. Zaccour, “*Feedback Nash Equilibria in Differential games with Impulse Control*”, Forthcoming in **IEEE Transactions on Automatic Control**.
  - Finalist, Best Paper Award, International Symposium on Dynamic Games, Porto, 2022
3. U. Sadana, P.V. Reddy, T. Başar and G. Zaccour, “*Sampled-Data Nash Equilibria in Differential Games with Impulse Controls*”, **Journal of Optimization Theory and Applications**, 2021.
4. U. Sadana, P.V. Reddy and G. Zaccour, “*Nash equilibria in nonzero-sum differential games with impulse control*”, **European Journal of Operational Research**, 2021.

## Book Chapter

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1. M. Rudnianski, U. Sadana, and H. Bestougeff, “*Bayesian Networks and Games of Deterrence*”, Recent Advances in Game Theory and Applications: European Meeting on Game Theory, Saint Petersburg, Russia, 2015, and Networking Games and Management, Petrozavodsk, Russia, 2015, (Eds.) Leon A. Petrosyan and Vladimir V. Mazalov, **Springer**, 2016. [\[Chapter\]](#)

## Under Review

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1. U. Sadana, A. Chenreddy, E. Delage, A. Forel, E. Frejinger, T. Vidal, “A Survey of Contextual Optimization Methods for Decision-Making under Uncertainty”, 2023.

## Talks and Seminars

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- DS4DM Coffee Talk, Montréal, Canada 2023
- Meet a GERAD Researcher Seminar, Montréal, Canada 2023
- DIRO Seminar, University of Montréal, Canada 2023
- International Symposium on Dynamic Games, Porto, Portugal 2022
- CORS/INFORMS International Conference, Vancouver, Canada 2022
- CORS Annual Conference 2021
- INFORMS Annual Meeting 2020
- Virtual Informal Systems Seminar, McGill and GERAD, Montréal 2020
- Workshop on Differential Games, Stony Brook Center for Game Theory, NY, USA. 2020
- CRC - Decision Making Under Uncertainty Seminar Series 2020
- 11th Workshop on Dynamic Games in Management Science, Montréal, Canada 2019
- Optimization Days, Montréal, Canada 2019

## Courses Taught

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- **MGCR-271: Business Statistics**, McGill University Summer 2022  
Instructor

## Supervision

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- Yug Garg, Internship, McGill University, Canada, Summer 2022
- Nacer Fendri, Internship, GERAD (HEC Montréal), Summer 2022

## Academic Service

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- **Session chair**, CORS/INFORMS International Conference, Vancouver 2022
- **NSERC (CGS) Master's award committee**, McGill University 2022,2023.
- **Co-organizer**, Dynamic Games and Applications Seminars, Oct. 2020 – Jun. 2021
- **Reviewer** for Operations Research, INFORMS Journal on Computing, European Journal of Operational Research, Production and Operations Management, Dynamic Games and Applications, Journal of Operations Research Society, IEEE Transactions on Automatic Control, European Economic Review, Mathematical Methods of Operations Research, Operations Research Letters, The IEEE Control System Letters, and IEEE Transactions on Systems, Man, and Cybernetics: Systems

## Personal

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**Citizenship:** India

**Languages:** Hindi (native), English (fluent), French (lower intermediate)

**Hobbies:** Poetry, Tennis, Badminton, Board Games