Antoine Désir

Contact Information	Technology and Operations Management, INSEAD Boulevard de Constance, 77305 Fontainebleau Cedex, France	phone: (+33) 7 67 38 49 55 e-mail: antoine.desir@insead.edu webpage: https://faculty.insead.edu/antoine-desir			
Academic	INSEAD , France				
APPOINTMENTS	Assistant Professor in Operations and Technology	Management	Sept 2018 -		
Education	Columbia University, New York, NY		2012 - 2017		
	PhD in Operations Research				
	 Thesis: Fundamental tradeoffs for modeling customer preferences in revenue management. Revenue management and pricing section dissertation prize, 2018 				
	Columbia University, New York, NY		2012		
	MS in Operations Research				
	Ecole Polytechnique, Palaiseau, France		2008 - 2011		
	Diplôme d'ingénieur, Majored in Applied Mathem	atics			
Research Interests	operations management, revenue management, online advertising, choice modeling, approximation algorithms				
Journal Publications	 Désir A, Goyal V, Wei Y, and Zhang J (2016). Sparse process flexibility designs: Is the long chain really optimal?. Operations Research 64(2): 416-431. Finalist in the George Nicholson student paper competition, 2014 Finalist in the MSOM student paper competitions, 2014 				
	 2. Désir A, Goyal V, Segev D, and Ye C (2020). Constrained assortment optimization under the Markov chain choice model. Management Science 66(2): 698-721. - Finalist in the George Nicholson student paper competition, 2015 				
	 3. Désir A, Goyal V, Jagabathula S, and Segev D (2021). Mallows-smoothed distribution over rankings approach for modeling choice. Operations Research 69(4): 1206-1227. - Finalist in the MSOM student paper competitions, 2017 				
	4. Désir A, Goyal V, and Zhang J (2022). Capacitated assortment optimization: Hardness and approximation. Operations Research 70(2): 893-904.				
	 5. Singal R, Besbes O, Désir A, Goyal V, and Iyengar G (2022). Shapley meets uniform: An axiomatic framework for attribution in online advertising. Management Science 68(10): 7457-7479. - Second place in the revenue management and pricing student paper competition (student: Raghav Singal), 2019 				
	6. Cohen M, Désir A, Korula N, and Sivan B (2023). Best of both worlds ad contracts: Guaranteed allocation and price with programmatic efficiency. Management Science 69(7): 4027-4050.				
	7. Balseiro S and Désir A (2023). Incentive-compatible assortment optimization for sponsored products. Management Science 69(8): 4668-4684.				

	8. Désir A, Goyal V, Jiang B, Xie T, and Zhang J (2022). Robust assortment optimization u the Markov chain model. Accepted for publication at Operations Research .	
	9. Atasu A, Ciocan F, and Désir A (2023). Price delegation with learning agents. Accepted for publication at Management Science .	
Submitted / Under revision	10. Bompaire M, Désir A, and Heyman B. Robust label attribution for real-time bidding. Under second round of revision (First round: Major revision) at Manufacturing & Service Operation Management .	
	 11. Aouad A, and Désir A. Representing random utility choice models with neural networks. Under second round of revision (First round: Reject and Resubmit) at Management Science. Second place in the INFORMS JFIG paper competition, 2022 	
	 12. Chen L, Désir A, and Roels G. Fairness concerns in heterogeneous teams: Optimal team composition and contract. Major revision at Manufacturing & Service Operation Management. Selected for MSOM SIG TIE, 2023 	
Ongoing work	13. Désir A and Parmentier A. Efficient Methods for Assortment Optimization using Neural Networks.	
	14. Atasu A, Désir A, Urlu B, and Van Wassenhove L. Humanitarian donors' fund allocation decision: impact of risk-aversion, information asymmetry and intermediary bias.	
	15. Désir A, Iancu D, and Vizzoto F. Choice modeling for food nutrition.	
	16. Aouad A, Auriau V, and Désir A. Large-scale assortment optimization.	
Refereed Conference Proceedings	18. Singal R, Besbes O, Désir A, Goyal V, and Iyengar G (2019). Shapley meets uniform: An axiomatic framework for attribution in online advertising. <i>Proceedings of ACM World Wide Web Conference (WWW)</i> .	
	19. Désir A, Goyal V, Jagabathula S, and Segev D (2016). Assortment optimization under the Mallows model. <i>Proceedings of Neural Information Processing Systems (NIPS)</i> .	
	20. Désir A, Goyal V, and Segev D (2016). Assortment optimization under a random swap based distribution over permutations model. <i>Proceedings of ACM Conference on Economics and Computation (EC)</i> .	
	21. Désir A, and McEneaney W (2013). Games of network disruption and idempotent algorithms. <i>Proceedings of European Control Conference (ECC).</i>	
Other PUBLICATIONS	Boosting vaccine production needs the right degree of flexibility, November 3 2021, INSEAD Knowledge. (with Prashant Yadav)	
	Making sense of attribution in online advertising, July 19 2022, INSEAD Knowledge.	
Case studies	Désir A, Satopää V A, Heely L, and Sibony E (2022). To catch a thief: Explainable AI in insurance fraud detection. INSEAD Case with Teaching Note. - Second place in the INFORMS case competition, 2022	

Awards	Research Second place INFORMS JFIG paper competition, 2022 Second place revenue management and pricing student paper pr Revenue management and pricing section dissertation prize, 201 Finalist MSOM student paper competition, 2017 Finalist George Nicholson student paper competition, 2015 Finalist George Nicholson student paper competition, 2014 Finalist MSOM student paper competition, 2014	
	Teaching Second place INFORMS case competition, 2022 Dean's commendation for excellence in MBA teaching, 2020	
	Service MSOM meritorious service award, 2022 Management Science distinguished service award, 2022 Management Science meritorious service award, 2018, 2020, 2023	1, 2023
Teaching	INSEAD	2018 -
EXPERIENCE	• Process and Operations Management (MBA core)	
	• Social Media Analytics (MBA elective)	
	• Foundations of Optimization (PhD)	
	 Linear Optimization (PhD) 	
	Columbia UniversityIntroduction to Probability and Statistics (Instructor)	Fall 2013
	• Operations Consulting (Teaching assistant)	2012 - 2016
Industry Experience	Google , New York, NY Postdoctoral Research Scientist Research Intern	Aug 2017 - Aug 2018 Summer 2016
	Mediaocean, New York, NY	
	Software Engineer Intern	Summer 2013, Summer 2014
Invited Seminars	 HEC Paris INSEAD School Wide Seminar Series NEOMA Business School NUS, IORA Imperial Business School, Analytics and Operations HKUST, ISOM Workshop Information Learning at IESE Yale, School of Management European TOM Series Criteo (Beer and Tech series) SPO (Seminaire d'Optimisation Parisien) New York University, Stern School of Business Google Research, NYC HEC Montreal UCLA, Anderson School of Management University of Pittsburgh, Industrial Engineering Department 	Nov 2023 (Scheduled) May 2023 Mar 2023 Feb 2023 June 2022 Aug 2021 July 2021 May 2021 Nov 2020 Nov 2019 Mar 2019 Mar 2019 May 2018 Mar 2017 Feb 2017 Feb 2017 Feb 2017

	Carnegie Mellon University, Tepper School of Business HEC Paris INSEAD, Technology & Operations Management University of Chicago, Booth School of Business Harvard Business School, TOM Duke University, Fuqua School of Business Michigan University, Ross School of Business University of British Columbia, Sauder School of Business University of Illinois at Urbana–Champaign Cornell University, ORIE Department Northwestern University, Kellogg School of Management MIT, Sloan School of management Young Researchers Workshop at Cornell ORIE	Feb 2017 Feb 2017 Feb 2017 Jan 2017 Jan 2017 Jan 2017 Jan 2017 Jan 2017 Jan 2017 Jan 2017 Jan 2017 Jan 2017 Dec 2016 Oct 2015	
Conference Presentations	 INFORMS, Phoenix, AZ MSOM, Montreal, Canada MSOM, Munich, Germany Revenue Management and Pricing Conference (Virtual) MSOM (Virtual) INFORMS, Seattle, WA POMS, Washington DC INFORMS, Phoenix, AZ ISMP, Bordeaux, France Revenue Management and Pricing Conference, Toronto, Canada INFORMS, Houston, TX INFORMS, Nashville, TN MSOM, Auckland, NZ Revenue Management and Pricing Conference, New York, NY INFORMS Annual Meeting, Philadelphia, PA MSOM, Toronto, ON Revenue Management and Pricing Conference, New York, NY INFORMS Annual Meeting, San Francisco, CA MSOM, Seattle, WA INFORMS Annual Meeting, Minneapolis, MN 	Oct 2023 June 2023 June 2022 June 2021 June 2021 Nov 2019 May 2019 Nov 2018 Jul 2018 Jul 2018 Oct 2017 Nov 2016 Jun 2016 May 2016 May 2016 May 2015 Jun 2015 May 2015 Jul 2015 Nov 2014 Jun 2014 Nov 2013	
Professional Service	tions Management, Production and Operations Management, Stochastic Systems, INF nal on Optimization, Operations Research Letters	 (journals): Operations Research, Management Science, Manufacturing & Service Operanagement, Production and Operations Management, Stochastic Systems, INFORMS Jourptimization, Operations Research Letters (conferences): ACM Conference on Economics and Computation (EC), Web Conference, aformation Processing Systems (NeurIPS) hair: INFORMS 2018, 2019, 2020, 2021, 2022, 2023 committee member for the Web Conference in 2019-2021. MSOM student paper competition in 2020-2023. MSOM Supply Chain Management SIG in 2020-2023, and Service SIG in 2022-2023. 	