

Ekaterina (Kate) Astashkina

701 Tappan Ave
Ann Arbor, MI 48109-1234, USA

astash@umich.edu
<http://www.astashkina.com>

EMPLOYMENT **The Stephen M. Ross School of Business, University of Michigan, USA**
Assistant Professor of Technology & Operations Jul 2019 - present
(off tenure clock in AY 2019-2020 due to Covid-19 pandemic)
(off tenure clock in AY 2022-2023 due to maternity leave)

Sustainable Food Systems Initiative (SFSI), University of Michigan, USA
Faculty Affiliate Sep 2021 - present

RESEARCH INTERESTS (i) Sustainability in Operations Management: Food Systems, Food Waste, Sustainable Fashion, Environmental Impact
(ii) Platform Operations: Tech-Enabled Innovative Business Models (incl., grocery e-tailing, peer-to-peer food sharing, rewards-based crowdfunding, subscription-based fashion rental)

EDUCATION **INSEAD, France**
Ph.D. in Management (Technology & Operations) Jun 2019
M.Sc. in Management (Technology & Operations) Jun 2015
Dissertation Committee: E. Belavina, K. Girotra, A. Calmon, P. Chandon

Universität Bielefeld, Germany
Universitat Autònoma de Barcelona (UAB-GSE), Spain
M.Sc. in Quantitative Economics (Joint Degree) Jul 2012

Moscow Institute of Physics and Technology, Russia
B.Sc. in Applied Mathematics and Physics Jun 2010
Minor: Computer Science, Linguistics

WORKING PAPERS [1] **The Environmental Impact of the Advent of Online Grocery Retailing**
with E. Belavina (Cornell) and S. Marinesi (Wharton)
in prep. for 2nd round submission at Management Science (after Rej. & Resub. decision)
findings feat. in MBA Core TO course at Michigan Ross
selected for MSOM SCM SIG presentation (2021)

[2] **On the Profitable Buffet Design to Reduce Plate Waste**
with I. Duenyas (Michigan Ross), F. Tian (Michigan Ross), Y. Hu (Michigan Ross)
working paper

[3] **The Impact of Variety on the Economic & Environmental Performance of a Fashion Rental Business Model**
with V. Aggrawal (Georgetown) and A. Saez de Tejada Cuenca (IESE)
working paper

[4] **Designing an Optimal Dynamic Contract in the Presence of Double Moral Hazard**
with I. Duenyas (Michigan Ross) and F. Tian (Michigan Ross)
in prep. for 3rd round submission at Management Science (after Major Revision decision)

[5] All-Or-Nothing VS Keep-It-All: Comparing Campaign Designs in Rewards-Based Crowdfunding Platforms

with S. Marinesi (Wharton)

in prep. for 2nd round submission at Management Science (after Rej. & Resub. decision)

selected for MSOM iFORM SIG presentation (2022)

[6] A Disquieting Lack of Evidence for Disintermediation in a Home-Cleaning Platform

with R. Bray (Kellogg), R. Momot (Michigan Ross), and M. Salikhov (NES)

under review at Operations Research

[7] Impact of Workforce Flexibility on Customer Satisfaction: Empirical Framework & Evidence from a Cleaning Services Platform

with R. Momot (Michigan Ross) and M. Salikhov (NES)

in prep. for re-submission

WORK IN PROGRESS

[8] Information Design for Perishables: Profit & Food Waste Implications

with R. Anupindi (Michigan Ross), and F. Zhou (Michigan Ross)

[9] Hyperlocal P2P Food Sharing: Estimating the Effect of the Presence of the Commercial Food Donation Channel

with M. Shunko (U Washington) and H. Zhang (U Washington)

ON PAUSE

[11] Reducing Post-Consumer Food Waste at the Employee Dining Halls: Field Experiment

with E. Belavina (Cornell)

on pause due to Covid-19 pandemic

[10] On the Supply Chains of Perishables

with E. Belavina (Cornell) and S. Marinesi (Wharton)

[12] Toward a Greener Fashion Rental: Regulation that Delivers Win-Win

with I. Duenyas (Michigan Ross) and Y. Hu (Michigan Ross)

MEDIA MENTIONS

Axios (interview, podcast):

Oct 2022

The price of staying warm this winter

Poets & Quants (article, quote):

Jan 2022

The Crystal Ball: B-Schools Acknowledge Challenges, Put Positive Shine On 2022

Bon Appetit Magazine (quote):

May 2021

To Stop Food Waste, We Need to Confront Our Food Anxiety

Ross Thought in Action (article):

Jan 2020

Online Grocery Shopping Can Reduce Food Waste and Help the Environment

TEACHING EXPERIENCE

The Stephen M. Ross School of Business, U of Michigan, USA 2019 – 2022
BBA Program, Business Analytics & Statistics Class (TO301)

- Instructed 2 sections in Fall 2019 & Fall 2020
- Instructed 3 sections in Fall 2021

- Served as a Course Coordinator in Fall 2021
- Completed BBA curriculum mapping for TO301 in Winter 2022

The Stephen M. Ross School of Business, U of Michigan, USA Winter 2021
 PhD Program, Select Topics on Sustainability in OM Class (TO899)
 · Created & taught a PhD class

INSEAD, France 2013 – 2018
 Executive Training Program “Sberbank 500” (Russia’s Largest Bank)
 · TA in the Business Model Innovation class, Prof. S. Netessine,
 · Coordinated a hybrid MOOC of ~500 students per year

The University of Chicago Booth School of Business, USA Spring 2018
 MBA Program
 · TA for Operations Management class, Prof. E. Belavina

London Business School, UK Fall 2017
 Executive Development Program
 · TA for Operational Innovation class, Prof. C. Markides & Prof. I. Ioannou

INSEAD, France Fall 2014
 PhD Program
 · Self-standing core Math Tutorial class (Calculus, Linear Algebra, Optimization)
 · Instructed 1st year PhD students, created class materials

Universität Bielefeld, Germany Fall 2011
 Department of Mathematics
 · Optimization class, Prof. T. Pasurek
 · Instructed 20 Master-level math students

TEACHING MATERIALS CREATED

INSEAD Business School Teaching Case “Sberbank: No Queues!”,
 with S. Netessine,
 available in English and in Russian,
 in use in Executive Training Program “Sberbank 500” for 4 years

AWARDS & GRANTS

Small Business of Food Grant, \$10,000 (joint with E. Belavina) 2019
 Finalist, IBM Service Science Best Student Paper Award 2018
 INSEAD Doctoral Scholarship 2013-2018
 Hackaton ”hack4INSEAD” Winner (team competition) Spring 2015
 European Commission Erasmus Mundus Scholarship 2010-2012
 Dynasty Foundation Scholarship for Young Scientists in Economics 2009-2010
 Scholarship for Innovation in the Domain of Natural Sciences 2007-2010
 Russian Government Scholarship for Academic Excellence 2006-2010

SELECTED INVITED TALKS

2023 – 2024:
 Young Scholar Seminar Series (UToronto & McGill University) (sch.) Fall 2023

2022 – 2023:

At the University of Michigan:

- Guest Lecture on Food Nutrition, Addiction, and Waste Mar 2023
invited by S. Aaronson
guest lecture for medical students (School of Public Health & Medical School)

2021 – 2022: (virtual)

At the University of Michigan:

- Knight-Wallace, ESG Bootcamp: Is On-demand Sustainable? May 2022
invited by Prof. J. Davis
- Fast Food For Thought: Shall We Do Our Groceries Online? Apr 2022
invited by SFSI
campus-wide event with 700+ of registered attendees
- Kick-Off Event (Tauber Institute): Successful Student Advising Apr 2022
invited by Prof. H.-S. Ahn
- BA670 (+Impact Studio course): Latest Innovations in the Food Sector Dec 2021
invited & interviewed by Prof. J. Davis
- EBS Program (Ross & LSA): Last-Mile Food Delivery & Food Waste Jul 2021
invited by Prof. F. Lafontaine

Other Schools:

Cornell University (invited to give a guest lecture on food waste)
Nanyang Business School, Nanyang Technological University
The Lee Kong Chian School of Business, Singapore Management University
National University of Singapore Business School

2019 – 2020:

At the University of Michigan:

- Junior Faculty Informal TO Brown Bag May 2020
invited by Prof. S. Keppler
Presented the work-in-progress "Hyperlocal P2P Food Sharing: Estimating the Effect of the "Food Waste Hero" Presence"
- TO/BE435: Guest Lecture on Food Waste Mar 2020
invited by Prof. S. Leider
Behavioral Economics & Behavioral OM BBA Class
- Business+Impact: Food Waste Talk Feb 2020
invited by Prof. J. Davis
Part of the Series "Faculty Research for Impact" (UN SDG 14: Climate Action)

- Knight-Wallace Fellows Event: Food Waste Talk
invited by Prof. F. Lafontaine

Sep 2019

2018 – 2019:

The Stephen M. Ross School of Business, University of Michigan
The Kellogg School of Management, Northwestern University
SC Johnson College of Business, Cornell University
The Anderson School of Management, University of California, Los Angeles
The Fuqua School of Business, Duke University
Darden School of Business, University of Virginia
The Max M. Fisher College of Business, Ohio State University
College of Business, Clemson University
The Beedie School of Business, Simon Fraser University
School of Economics and Management, Tilburg University
INSEAD, France

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| CONFERENCE PRESENTA- TIONS | INFORMS, Phoenix, AZ, USA | (sch.) Oct 2023 |
| | MSOM, Montreal, Canada | (sch.) Jun 2023 |
| | MSOM, virtual | Jun 2021 |
| | INFORMS, virtual | Oct 2020 |
| | INFORMS, Seattle, WA, USA | Oct 2019 |
| | INFORMS, Phoenix, AZ, USA | Nov 2018 |
| | MSOM, Dallas, TX, USA | Jul 2018 |
| | European TOM Day, Fontainebleau, France | Jun 2018 |
| | INFORMS, Houston, TX, USA | Oct 2017 |
| | MSOM, Chapel Hill, NC, USA | Jun 2017 |
| | INFORMS, Nashville, TN, USA | Nov 2016 |
| | INFORMS, Philadelphia, PA, USA | Nov 2015 |

**ACADEMIC
SERVICE**

Ad-hoc reviewer for academic journals: Management Science, Manufacturing & Service Operations Management, Operations Research, Production & Operations Management, Quarterly Journal of Operations Research, Service Science

Invited judge for competitions/conferences: TIE SIG (MSOM Conference 2022-2023), SCM SIG (MSOM Conference 2020-2022), MSOM Best Student Paper Competition (2020-2021), POMS CSO Student Paper Competition (2021-2023), SOM SIG (MSOM Conference 2021-2023), PSOR Best Paper Award (2019-2022), INFORMS TIMES (2020-2021), Ross Datathon 2020

Conference Session Chair: (scheduled) INFORMS 2023 (Socially Responsible and Sustainable Operations cluster), INFORMS 2020 (ENRE and MSOM/Sustainability tracks), INFORMS 2019 (Service Science track)

Student Supervision:

(1) Feng Tian Jul 2019 - Jul 2021
ex-PhD student at Michigan Ross, co-advised with Prof. I. Duenyas,
academic job market placement: Asst. Prof. HKU Business School

(2) Yuwen Hu Jul 2020 - present
PhD student at Michigan Ross, co-advising with Prof. I. Duenyas

(3) Haonan Zhang Oct 2020 - present
Master Student at Northwestern University, solo advising until Aug 2021
PhD student at U Washington, co-advising with Prof. M. Shunko since Aug 2021

(4) Fan Zhou Oct 2021 - present
PhD student at Michigan Ross, co-advising with Prof. R. Anupindi

Other PhD Program Service: PhD student admissions committee member (2021),
invited "reader" for a candidacy paper of Jonhoo Bae (2021)

Faculty Advisor at Tauber Institute:

(1) Starbucks May - Jul 2023
J. Liu (IOE Student, senior, University of Michigan) and C. Wang (IOE Student, senior,
University of Michigan)

(2) Amazon Robotics May - Jul 2022
M. Isik (MBA Student, Michigan Ross) and S. Cox (IOE Student, senior, University of
Michigan)

(3) PepsiCo May - Jul 2021
T. Kraeutler (MBA Student, Michigan Ross) and J. Riley (IOE BBA Student, University
of Michigan)

(4) Beyond Meat (Pro-bono) May - Jul 2020
S. Gurijala (MBA Student, Michigan Ross) and X. Dai (IOE Master Student, University of
Michigan)

Other: Contributed to the development of INFORMS Diversity, Equity, and Inclusion
(DEI) Ambassadors Program; Consulted MBA Teams on their MAP projects at
Michigan Ross (Amazon Fresh, Avery Dennison), Consulted MBA Teams on their
B+I projects at Michigan Ross (topics: women empowerment, under-represented
communities, poverty, food access)

OTHER *Research Associate* Jul 2012 - Jul 2013
EXPERIENCE **INSEAD**, France
Economics & Political Science Department

Research Assistant Sep 2008 – Dec 2009
Gaidar Institute for Economic Policy, Russia
Department of Monetary Policy

OTHER *E. Astashkina, Fiscal theory of a price level in Russian economy,*
PUBLICATIONS Russian Economy: Young Scientists Insight (Working Papers Collection), 4th edition,
January 14, 2011. ISBN 978-5-93255-301-5 (available in Russian only).

OTHER Treasurer of POMS College of Supply Chain Management (elected) 2022 – 2024
LEADERSHIP Invited Expert Judge at Kellogg-Morgan Stanley Sustainable Challenge Spring 2018
& **EXPERT** Invited Expert/Teamleader, MIPT Startup incubator for Y Combinator Spring 2017
ROLES Invited Expert, SAFE-Q (Safeguarding Food and Environment in Qatar) Nov 2016
Delegate of Bielefeld University QEM Department 2011 – 2012
Speaker for the Student Trade Union, MIPT 2007 – 2010

Member of Student Government, MIPT

2007 – 2010

SKILLS

Computer: STATA, R, C, Python, Mathematica, MS Office, L^AT_EX

Languages: Russian (native), English (fluent), German & French (conversational), Spanish (basic).

**OTHER
ACTIVITIES**

Sports: Skiing (*Licensed Instructor*), Bouldering, Tennis, Dancing

Music & Art: Diaghilev Russian Academy of Arts

1996 – 2003

- *1st Dept:* Choreography (Ballet), Diploma with Honors

- *2nd Dept:* Instrument (Piano), Diploma with Honors