

# Orkun Irsoy

[orkunirsoy.github.io](https://orkunirsoy.github.io), [oirsoy@andrew.cmu.edu](mailto:oirsoy@andrew.cmu.edu)

Education	<b>Carnegie Mellon University, Pittsburgh - USA</b>   <b>2023 – 2028 (Expected)</b> <i>Electrical &amp; Computer Engineering, Ph.D. Advisor: Osman Yağan</i> <b>Boğaziçi University, Istanbul - Turkey</b>   <b>2019 – 2022</b> <i>Industrial Engineering, MS, GPA: 3.857 / 4.00</i> <b>Boğaziçi University, Istanbul - Turkey</b>   <b>2013 – 2019</b> <i>Industrial Engineering, BS, GPA: 3.43 / 4.00</i>
Academic Experiences	<b>Teaching Assistant</b>   <b>February 2020 – 2023</b> <i>Boğaziçi University, Industrial Engineering Department</i> <i>Agent Based Modeling &amp; Simulation / Systems Science &amp; Engineering / Dynamics of Socio-Economic Systems / Graph Theory &amp; Applications / See the <a href="#">complete list</a></i> <b>Graduate Research Assistant</b>   <b>February 2020 – 2023</b> <i>Boğaziçi University, Industrial Engineering Department, <a href="#">Socio-Economic System Dynamics (SESDYN) Lab</a></i> Supervisors: Prof. Yaman Barlas, Assoc. Prof. Gönenç Yücel <b>Research Fellow</b>   <b>October 2020 – 2023</b> <i>Koç University, Graduate School of Business, <a href="#">Karanfil Lab</a></i> Supervisors: Asst. Prof. Özge Karanfil, Asst. Prof. Mahdi Hashemian
Publications & Presentations	<b>Conference Presentation</b>   <b>September 2022</b> <i><a href="#">“Challenging Black Lives Matter: Countermovements’ framing strategies.”</a>   Methods of Social Movement Research: New Developments and Recurring Questions, Berlin. Basak Taraktas, Cihan Duran, <b>Orkun Irsoy</b>, Suzan Uskudarli, Dilara Karaduman</i> <b>Conference Paper</b>   <b>July 2022</b> <i><a href="#">“Dynamic Analysis of False Information Spread Over Social Media: 5G-COVID 19 Conspiracy Theory”</a>   40<sup>th</sup> International Conference of the System Dynamics Society. <b>Orkun Irsoy</b>, Yaman Barlas</i> <b>Conference Presentation</b>   <b>July 2022</b> <i><a href="#">“What differentiates countermovements of Black Lives Matter?”</a>   Sunbelt Conference 2022, Cairns. Basak Taraktas, Cihan Duran, <b>Orkun Irsoy</b>, Suzan Uskudarli, Dilara Karaduman <i>Presented in Session 86 -1. Collective Action and Social Movements</i> <b>Conference Paper</b>   <b>September 2021</b> <i><a href="#">“What is the Stakeholder Effect on Clinical Guideline Formation Process: An Experimental Study”</a>   39<sup>th</sup> International Conference of the System Dynamics Society Özge Karanfil, Şanser Güz, <b>Orkun Irsoy</b>, Mahdi Hashemian <i>Presented in Parallel Session: Clinical Care Improvement</i></i></i>

**Journal Article**

| March 2021

*"Dynamic trade-offs in granulocyte colony-stimulating factor (G-CSF) administration during chemotherapy"* | System Dynamics Review 36 (4), 397-446

**Orkun İrsoy**, Şanser Güz, Naz Beril Akan, Gönenç Yücel

*Presented in System Dynamics Society Seminar Series: Biomedical System Dynamics Modeling*

**Conference Paper**

| September 2020

*"Managing Chemotherapy-Induced Neutropenia using Exogenous Granulocyte Colony-Stimulating Factor"* | 38<sup>th</sup> International Conference of the System Dynamics Society

Şanser Güz, **Orkun İrsoy**, Naz Beril Akan, Gönenç Yücel

*Awarded with Lupina Young Researchers Award - Honorable Mention*

*Presented in Plenary Session: Scientific Advances*

**Work****Junior Business Analyst**

| April 2018 – Oct 2019

**Experiences**

*Technolera Venture Builder, Istanbul-Turkey*

**Production Planning Intern**

| Jan 2018 – Feb 2018

*TEPAS Electric Motors, Izmir-Turkey*

**Skills**

(See [orkunirsoy.github.io](https://orkunirsoy.github.io) for details)

**Programming Languages:** C, R, C++, GAMS, Python

**Simulation Software:** Stella, Vensim, Netlogo

**Language:** Turkish (Native), English (Fluent), German (Beginner)

**Awards,****Achievements****& Scholarships**

Lupina Young Researchers Award – Honorable Mention at International System Dynamics Conference 2020

"National Scholarship Programme for Msc Students" from TUBITAK, 2020

Ranked 81<sup>th</sup> in National University Admission Exam in 2013 (Mathematics-Science)

Outstanding Success Scholarship by Prime Ministry of the Republic of Turkey

**Extracurricular****Activities**

Bogazici University Drama Club (BÜO)

Player

| 2013-2016

Managerial Board Member and Vice President

| 2014-2016

Bogazici University Dance Club (BUDANS)

| 2017

Tennis

| 2020-

**References**

**Osman Yağan, Ph.D. Research Professor**, Carnegie Mellon University

email: [oyagan@ece.cmu.edu](mailto:oyagan@ece.cmu.edu) , phone: +1 412 268 39 76

**Yaman Barlas, Ph.D. Professor**, Boğaziçi University

email: [ybarlas@boun.edu.tr](mailto:ybarlas@boun.edu.tr) , phone: +90 212 359 70 73

**Gönenç Yücel, Ph.D. Associate Professor**, Boğaziçi University

email: [gonenc.yucel@boun.edu.tr](mailto:gonenc.yucel@boun.edu.tr) , phone: +90 212 359 45 75

**Başak Taraktas, Ph.D. Assistant Professor**, Boğaziçi University

email: [basak.taraktas@boun.edu.tr](mailto:basak.taraktas@boun.edu.tr) , phone: +90 212 359 6504