

## GLEB ZAVADSKIY

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### ABOUT

Gleb Zavadskiy is an Assistant Professor at Auburn University at Montgomery, Department of Information Systems. He received his Bachelor and Master in Applied Mathematics and Physics from Moscow Institute of Physics and Technology. Before coming to U.S. in January 2014, he worked as Data Analyst in SmartLab. In the United States, he received his MBA in 2016 and Ph.D. in Information Systems in 2024 from the University of South Florida (Tampa). His research interests are in the areas of Artificial Intelligence, Machine Learning, Data Science, and the usage of Information Technology for competitive advantage. Along with his research, he teaches undergraduate and graduate courses at AUM.

### ACADEMIC EXPERIENCE

- **Assistant Professor**, Department of Management Information Systems, College of Business, Auburn University at Montgomery, Montgomery, AL  
September 2024 - current

### EDUCATION

**Ph.D. in Business Administration with a concentration in Information Systems**,  
University of South Florida, Tampa, FL, USA, August 2018 - August 2024

- Dissertation title “Essays on Information Technology in Healthcare”  
Committee members: *Daniel Zantedeschi (Co-chair), Wolfgang Jank (Co-chair), Kellas Cameron, Sunil Mithas, Prasad Naik*

**Master of Business Administration with concentrations in Finance and Compliance, Risk & Anti-Money Laundering**, University of South Florida, Tampa, FL, USA  
2014 - 2016

**Master’s in Applied Mathematics and Physics**, Moscow Institute of Physics and Technology (MIPT), Dolgoprudny, Moscow Region, Russia  
2011 - 2013

**Bachelor’s in Applied Mathematics and Physics**, Moscow Institute of Physics and Technology (MIPT), Dolgoprudny, Moscow Region, Russia  
2007 - 2011

### RESEARCH INTERESTS

- Data Science/AI & ML
- Healthcare Information Technology
- Operations Research

## PUBLISHED PAPERS IN INFORMATION SYSTEMS

1. **Zavadskiy, G.**, Zantedeschi D. & Jank W. (2024). A Functional Hidden Markov Models to Incorporate Dynamics into Bayesian Optimal Stopping Problems: Helping Physicians Manage Traumatic Brain Injuries. *Decision Support Systems*, 177, 114078

## OTHER PUBLISHED PAPERS

1. Noureldine, M. H. A., Hartnett, S., **Zavadskiy, G.**, Pressman, E., Kim, J. K., Davis, D., ... & Agazzi, S. (2021). Predicting neurosurgical clearance in the polytrauma patient with concomitant traumatic brain injury. *Journal of Clinical Neuroscience*, 89, 51-55.
2. Noureldine, M. H. A., Pressman, E., Kumar, J. I., **Zavadskiy, G.**, Tran, N. D., Greenberg, M. S., & Alikhani, P. (2021). Sacroiliac joint arthropathy in adult spinal deformity patients with long constructs to the pelvis. *Clinical Neurology and Neurosurgery*, 203, 106593.
3. Jha, R. T., McBride, P., **Zavadskiy, G.**, van Loveren, H. R., & Agazzi, S. (2020). Retrosigmoid Transtentorial Approach Compared to Traditional Transpetrosal Approaches for the Resection of Petroclival Meningiomas: A Case-Control Study. *Journal of Neurological Surgery Part B: Skull Base*.
4. Peto, I., Abou-Al-Shaar, H., White, T. G., Abunimer, A. M., Kwan, K., **Zavadskiy, G.**, ... & Dehdashti, A. R. (2020). Sources of residuals after endoscopic transsphenoidal surgery for large and giant pituitary adenomas. *Acta Neurochirurgica*, 1-11.
5. Noureldine, M. H. A., Aum, D., Piper, K., **Zavadskiy, G.**, Peto, I., Bach, K., ... & Agazzi, S. (2020). Value of the Petromental Angle in Predicting Outcome of Translabyrinthine Resection of Vestibular Schwannomas. *Operative Neurosurgery*.
6. Pressman, E., Jha, R. T., **Zavadskiy, G.**, Kumar, J. I., van Loveren, H., van Gompel, J. J., & Agazzi, S. (2020). Teflon™ or Ivalon®: a scoping review of implants used in microvascular decompression for trigeminal neuralgia. *Neurosurgical Review*, 43(1), 79-86.

## WORKING PAPERS

1. Mithas, S., Silveira, A., & **Zavadskiy, G.** Trends in Research Productivity of Disciplines, Journals, Authors and Universities: A Descriptive Analysis of Top 50 Business Journals. *In preparation for the second-round submission to Production and Operations Management (POM)*.
2. Xu, Z., **Zavadskiy, G.**, Mithas, S., De Vreede, T., & Steele, L. Institutional Creativity to Foster Innovative Behavior: The Role of Knowledge Management Strategy and Communication Channels. *In preparation for submission to Information Systems Research*
3. **Zavadskiy, G.**, Mithas, S. & Champagnie, S. Can Information Technology Reduce Upcoding Errors and Improve Billing Accuracy in US Healthcare? *In preparation for submission to Journal of Operations Management*
4. **Zavadskiy, G.**, Mithas, S., Brown, A. Utilization of Information Technologies to Mitigate Missed Appointments. *Data analysis and modelling stage*
5. Cameron, K., **Zavadskiy, G.** & Laird, H. How does Internal Hiring of Attending Physicians affect Hospital Quality Management? *In preparation for submission to Decision Support Systems*

6. **Zavadskiy, G.** & Mithas, S. A Comparative Analysis of INFORMS Journals Based on Web of Science Data. *Data analysis and modelling stage*

## CONFERENCE PAPERS

1. **Zavadskiy, G.**, Zantedeschi D. & Jank W. A Bayesian Optimal Stopping Framework for Traumatic Brain Injuries Patients (2021). *ICIS 2021 Proceedings*. 2.  
[https://aisel.aisnet.org/icis2021/is\\_health/is\\_health/2](https://aisel.aisnet.org/icis2021/is_health/is_health/2)
2. Pressman, E., Jha, R. T., **Zavadskiy, G.**, Kumar, J. I., Peto, I., van Loveren, H., ... & Agazzi, S. (2020). Teflon or Ivalon®: A Scoping Review of Implants Used in Microvascular Decompression for Trigeminal Neuralgia. *Journal of Neurological Surgery Part B: Skull Base*, 81(S 01), P147.
3. Noureldine, M. H. A., Aum, D., **Zavadskiy, G.**, Peto, I., Piper, K., Bach, K., ... & Agazzi, S. (2020). Impact of Petromental Bone Angle on Degree of Tumor Resection and Facial Nerve Injury for Vestibular Schwannomas During the Translabyrinthine Approach. *Journal of Neurological Surgery Part B: Skull Base*, 81(S 01), P231.

## CONFERENCE PRESENTATIONS

1. **Zavadskiy, G.**, Mithas, S. & Champagnie, S. Can Information Technology Reduce Upcoding Errors and Improve Billing Accuracy in US Healthcare? (2022). *Conference on Health IT and Analytics (CHITA) 2022*
2. **Zavadskiy, G.**, Zantedeschi D. & Jank W. Managing Uncertainty in the Scheduling of Traumatic Brain Injuries Patients with Hidden Markov Models (2020). *Workshop on Information Technologies and Systems (WITS) 2020*
3. **Zavadskiy, G.** & Olenov, N. Moscow Real Estate Market (2014). *8th Russian Scientific Conference "Mathematical modeling of Economics, Ecology, and Technology" Ecomod-2014*
4. **Zavadskiy, G.** & Olenov, N. Moscow Real Estate Market (2014). *6th International Scientific Conference "Modernization and Innovative Development of Economic Systems: Challenges, Strategies, Structural Changes" 2014*
5. **Zavadskiy, G.** & Olenov, N. The Influence of Shadow Sector on Kirov Region Economy (2012). *55th Russian Scientific Conference 2012*

## TEACHING EXPERIENCE

- **University of South Florida (USF)**  
Global Cyber Ethics  
Fall 2022, Spring 2023, Fall 2023
- **University of South Florida (USF)**  
Systems Analysis and Design  
Summer 2022 (Online), Spring 2024
- **University of South Florida (USF)**  
Data Analytics with R  
Spring 2022
- **University of South Florida (USF)**  
Python for Analytics  
Fall 2021

- **University of South Florida (USF)**  
Business Application Development  
Spring 2021

## **PROFESSIONAL EXPERIENCE**

- **Graduate/Research Assistant**, University of South Florida, Tampa, FL, USA, August 2018 – current
- **Teaching Assistant**, University of South Florida, Tampa, FL, USA, January 2018 – May 2018
- **Post-graduate Intern, Amruss Inc.**, Beaver Falls, PA, USA, December 2016 – June 2017
- **Account Executive**, Kirkwood, Cincinnati, OH, USA, September 2016 – December 2016
- **Data Analyst**, SmartLab, Moscow, Russia, September 2013 – December 2013
- **Marketing Manager/Analyst**, VESCO FACTORY HOUSE LTD, Moscow, Russia, June 2008 – December 2012

## REFERENCES

1. **Dr. Sunil Mithas**  
Dissertation committee member  
Professor, School of Information Systems and Management  
Muma College of Business  
University of South Florida, Tampa, FL, USA  
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3. **Dr. Daniel Zantedeschi**  
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Type of reference: Academic, Supervisory