

RESUME

October, 2025

PERSONAL DETAILS

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ACADEMIC DEGREES

- **Ph.D.** in Aerospace Engineering, Technion – Israel Institute of Technology, Israel, **2017**.
- **M.Sc.** (*Summa Cum Laude*) in Mechanical Engineering, Ben-Gurion University, Israel, **2013**.
- **B.Sc.** (*Cum Laude*) in Mechanical Engineering, Ben-Gurion University, Israel, **2011**.

ACADEMIC APPOINTMENTS

Jul. 2022 – present	Assistant Professor, Faculty of Aerospace Engineering, Technion.
Sept. 2020 – Jun. 2022	Postdoctoral Research Associate, Department of Aerospace and Mechanical Engineering, University of Notre Dame, IN, USA.
Jan. 2018 – Aug. 2020	Postdoctoral Fellow, Department of Mechanical Engineering, Johns Hopkins University, MD, USA.
Oct. 2017 – Jan. 2018	Research Associate, Faculty of Aerospace Engineering, Technion, Israel.

RESEARCH INTERESTS

Experimental and theoretical fluid mechanics that combines interdisciplinary approaches from dynamical systems, signal processing, computer vision tools, and control theory. Current focus: transitional and turbulent boundary layers, cavitation and bubble dynamics.

TEACHING EXPERIENCE (IN THE LAST 5 YEARS)

- Introduced and developed the course: Cavitation and Bubble Dynamics (joint level). Faculty of Aerospace Engineering, Technion. Approved on March 3, 2024.
- Lecturer (in charge) in the Faculty of Aerospace Engineering, Technion. Courses:
 1. Cavitation and Bubble Dynamics (joint level)
 2. Selected Topics in Fluid Dynamics (joint level)
 3. Viscous Flow and Heat Transfer (undergraduate level)
 4. Seminar in Aerodynamics (undergraduate level)
 5. Design Project 78 (undergraduate level)
 6. Research Project (undergraduate level)
 7. Experimental Project (undergraduate level)

DEPARTMENTAL ACTIVITIES

- 2025-present, Director of Faculty Excellence Programs, Aerospace Engineering, Technion.
- 2022-2024, Faculty Council Secretary, Aerospace Engineering, Technion.

Conference and Workshop Activities

- **Session co-chair** at the 64th IEEE Conference on Decision and Control (CDC), Dec. 11, 2025, Session: Nonlinear system identification II.
- **Session chair** at the Israel Annual Conference on Aerospace Sciences (IACAS): 2023-2025.
- **Session chair** at the AIAA SciTech, Jan. 3-7, 2022, Session: Instability and Transition III.
- **Session chair** at the 74th APS DFD, Nov. 21-23, 2021, Session: Flow Control II.

Journal reviewer

- International Journal of Heat and Mass Transfer: August 2025.
- Experiments in Fluids: June 2025 (1st round), July 2025 (2nd round).
- Physics of Fluids (PoF): Dec 2022 (1st round), Jan 2023 (2nd round); July 2023.
- International Journal of Multiphase Flow: March 2023 (1st round), June 2023(2nd round), Oct 2025.

Conference reviewer

- 57th Israel Annual Conference on Aerospace Sciences, 2017.

MEMBERSHIP IN PROFESSIONAL SOCIETIES

- American Physical Society (APS) membership (2016-present).
- American Institute of Aeronautics and Astronautics (AIAA) membership (2018, 2022, 2024).

FELLOWSHIPS, AWARDS, AND HONORS

- **2016** Irwin and Joan Jacobs Scholarship Award for Excellence in Graduate Studies, Technion – Israel Institute of Technology, Graduate School.

PUBLICATIONS

Theses

1. Gluzman, I., Experimental Study of Temperature Fluctuations in Forced Stably Stratified Turbulent Flows, *M.Sc. Thesis*, Ben-Gurion University of the Negev, 2013.
Thesis Advisors: Tov Elperin, Alexander Eidelman.
2. Gluzman, I., Disturbance Identification in Boundary Layer Flow via Blind Source Separation, *Ph.D. Thesis*, Technion – Israel Institute of Technology, 2017.
Thesis Advisors: Jacob Cohen, Yaakov Oshman.

Refereed papers in professional journals

Graduate students are denoted by (*).

Published papers

1. §Eidelman, A., Elperin, T., **Gluzman, I.***, Kleeorin, N., and Rogachevskii, I., Experimental Study of Temperature Fluctuations in Forced Stably Stratified Turbulent Flows. *Phys. Fluids* 25, 015111 (2013). (§Authors are ordered alphabetically.)
2. §Eidelman, A., Elperin, T., **Gluzman, I.***, Golbraikh, E., Helicity of Mean and Turbulent Flow with Coherent Structures in Rayleigh-Bénard Convective Cell, *Phys. Fluids (1994-present)*, 26, 065103 (2014). (§Authors are ordered alphabetically.)
3. **Gluzman I.***, Cohen J., Oshman Y., Statistical Calibration via Gaussianization in Hot-Wire Anemometry. *Exp. Fluids* 58.3: 15, (2017).
4. **Gluzman I.**, Oshman Y., Cohen J., Detection and Isolation of Tollmien-Schlichting Waves in Shear Flows Using Blind Source Separation, *Mech. Syst. Signal Process.*, 136, 106485 (2020).
5. **Gluzman I.** & Gayme F. D., Input-output framework for actuated boundary layers, *Phys. Rev. Fluids*, 6 (5), art. no. 053901 (2021).
6. **Gluzman I.**, Cohen J., Oshman Y., Blind disturbance separation and identification in a transitional boundary layer using minimal sensing, *J. Fluid Mech.*, 927, A4 (2021).
7. **Gluzman, I.** & Thomas, F. O., Characterization of bubble dynamics in the nozzle flow of aviation fuels via computer vision tools., *Int. J. Multiph. Flow* (2022): 104133.
8. **Gluzman, I.**, Gray P.*, Mejia K., Corke T. C., Thomas F. O., A simplified photogrammetry procedure in oil-film interferometry for accurate skin friction measurement over a Gaussian bump *Exp. Fluids*, 63.7 (2022): 1-14.
9. Liu C.*, **Gluzman, I.**, Lozier M.*, Midya S.*, Gordeyev S., Thomas F. O., Gayme F. D., Spatial Input–Output Analysis of Actuated Turbulent Boundary Layers, *AIAA J.*, 1-15 (2022).
10. **Gluzman, I.** & Thomas, F. O., Image-based characterization of the bubbly shock wave generation and evolution in aviation fuel cavitation, *Phys. Rev. Fluids*, 7, 084305 (2022).
11. **Gluzman, I.**, Anthony Pelster*, Michael Waldrop*, & Thomas, F. O., On cavitation in the radial flow of a thin lubricating film between two overlying disks, *Phys. Fluids*, 35, 023302 (2023).
12. D. J. Simmons, F. O. Thomas, T.C. Corke and **I. Gluzman**, Experimental Characterization and Similarity Scaling of Smooth Body Flow Separation and Reattachment on a Two-Dimensional Ramp Geometry. *J. Fluid Mech.* 1000 (2024): A12.
13. **Gluzman, I.**, Gray P., Corke T. C., Thomas F. O., A simplified photogrammetry procedure for quantitative on-and-off surface flow topology studies over 3D surfaces: application to a Gaussian bump geometry, *Exp. Fluids*. 66, 67 (2025).
14. Frank-Shafir, O.*, **Gluzman, I.**, Choosing Between Active and Passive Flow Control via Input-Output Analysis: Application to Couette Flow. *IEEE Control Syst. Lett.* (2025).

Refereed papers in conference proceedings

Graduate students are denoted by (*). The presenter is underlined:

1. **Gluzman, I.***, Cohen, J., Oshman, Y., Disturbance Source Identification for Flow Control: Problem Formulation for Infinitesimal Disturbances, *56th Israel Annual Conference on Aerospace Sciences*, Tel-Aviv, Israel, March 9–10, 2016.
2. **Gluzman, I.***, Cohen, J., Oshman, Y., Statistical Calibration via Gaussianization in Hot-Wire Anemometry, *56th Israel Annual Conference on Aerospace Sciences*, Tel-Aviv, Israel, March 9–10, 2016.
3. **Gluzman, I.***, Cohen, J., Oshman, Y., Identifying Disturbance Sources in Shear Flows Using the Degenerate Unmixing Estimation Technique, *57th Israel Annual Conference on Aerospace Sciences*, Tel-Aviv, Israel, March 15–16, 2017.
4. **Gluzman, I.**, Oshman, Y., Cohen, J., Estimation of Disturbance Propagation Velocity in Transitional Shear Flow, *58th Israel Annual Conference on Aerospace Sciences*, Tel-Aviv, Israel, March 14–15, 2018.

5. **Gluzman, I.**, Oshman, Y., Cohen, J., Identification of Disturbances and their Propagation Velocity in Transitional Boundary Layer, *2018 Flow Control Conference, AIAA AVIATION Forum (AIAA 2018-3694)*, Atlanta, Georgia, USA, June 25–29, 2018.
6. Liu C. *, **Gluzman, I.**, Lozier M. *, Midya S. *, Gordeyev S., Thomas F. O., Gayme F. D., Spatial input-output analysis of large-scale structures in actuated turbulent boundary layers, *2021 AIAA AVIATION Forum*, Virtual Event, 2–6 August 2021.
7. Gray P. *, **Gluzman, I.**, Thomas F. O., Corke T. C., Matthew L., Mejia K., A New Validation Experiment for Smooth-Body Separation, *2021 AIAA AVIATION Forum*, Virtual Event, 2–6 August 2021.
8. Gray P. *, **Gluzman, I.**, Thomas F. O., Corke T. C., Mejia K., Experimental Characterization of Smooth Body Flow Separation Over Wall-Mounted Gaussian Bump, *2022 AIAA SciTech Forum*, San Diego, CA & Online, 3–7 Jan 2022.
9. Gray P. *, **Gluzman, I.**, Thomas F. O., Corke T. C., Matthew L., Mejia K., Benchmark Characterization of Separated Flow Over Smooth Gaussian Bump, *2022 AIAA AVIATION Forum*, Chicago, IL, 27 June–1 July 2022.
10. Gray P. *, Matthew L., Thomas F. O., Corke T. C., **Gluzman, I.**, Straccia J., Experimental and Computational Evaluation of Smooth-Body Separated Flow over Boeing Bump, *2023 AIAA AVIATION Forum*, San Diego, CA, 12–16 June 2023.
11. Frank-Shafir O. *, **Gluzman, I.**, Effect of linear and nonlinear mechanisms on flow structures in Couette flow, *In 2024 AIAA Regional Student Conferences*, Melbourne, Australia & Online, 5–26 Nov 2024.
12. Frank-Shafir O. *, **Gluzman, I.**, Input-output approach to study energy pathways in transitional boundary layer, focusing on nonlinear response to actuation, *2025 AIAA SciTech Forum*, Orlando, Florida, 6–10 Jan 2025.
13. Frank-Shafir O. *, **Gluzman, I.**, Choosing between active and passive flow control via input-output analysis: application to Couette flow, *64th IEEE Conference on Decision and Control (CDC)*, Rio de Janeiro, Brazil, 9–12 December 2025. (Accepted. Coincides with the final Control Syst. Lett. paper)
14. Zur, E. *, **Gluzman, I.**, Bubbly shock waves characterization in aerated cavitating flows in water and dodecane via computer vision tools, Sendai, Japan, Nov. 10–13, 2025. (Accepted)
15. Salunke, S. *, **Gluzman, I.**, Gap effect on cavitation cloud collapse in radial flow between two overlying disks, *2026 AIAA SciTech Forum*, Orlando, Florida, 12–16 Jan 2026. (Accepted)

Research reports and other publications

Students denoted by (*).

1. Gray P. *, Matthew L., Thomas F. O., Corke T. C., **Gluzman, I.**, Straccia J., Turbulence Model Validation Through Joint Experimental Computational studies of separated flow over three-dimensional tapered bump, *Final Report submitted to Boeing*, publisher NASA, 24 July 2023.

CONFERENCES

Plenary, keynote or invited talks

1. **Gluzman, I.**, A simplified photogrammetry procedure in oil-film interferometry for accurate skin-friction measurement over arbitrary geometries, Experiments in Fluids Seminar Series, hosted by Experiments in Fluids, Springer Nature, Virtual Event, October 11, 2022. ([Link](#))
2. **Gluzman, I.**, Stability analysis of shear flows and boundary layers based on disturbance magnitude, *First Israeli Fluid Mechanics Conference*, September 8th, 2025, at the Technion – Israel Institute of Technology, Haifa, Israel

Contributed talks and posters

Graduate students are denoted by (*). The presenter is underlined:

1. §Eidelman, A., Elperin, T., Gluzman, I.*, Kleeorin, N., and Rogachevskii, I., Experimental Study of Temperature Fluctuations in Forced Stably Stratified Turbulent Flows, *The 32nd Israeli Conference of Mechanical Engineering, Tel-Aviv, Israel*, October 17–18, 2012. (§Authors are ordered alphabetically)
2. §Eidelman, A., Elperin, T., Gluzman, I.*, Kleeorin, N., and Rogachevskii, I., Temperature and Velocity Fluctuations in Forced Stably Stratified and Convective Turbulent Flows: Experiments and Theory, *14th European Turbulence Conference*, Lyon, France, September 1–4, 2013. (§Authors are ordered alphabetically)
3. §Eidelman, A., Elperin, T., Gluzman, I.*, Golbraikh, E., Helicity of Turbulent Flow with Coherent Structures in Rayleigh-Bénard Convective Cell, *14th European Turbulence Conference*, Lyon, France, September 1–4, 2013. (Poster). (§Authors are ordered alphabetically)
4. Gluzman, I.*, Cohen, J., Oshman, Y., Disturbance Source Identification for Flow Control, *6th Symposium on Global Flow Instability and Control*, Hersonissos, Crete, Greece, September 28–October 2, 2015.
5. Gluzman, I.*, Cohen, J., Oshman, Y., The Evolution of a 2D SDBD Plasma Generated Disturbance Along a Flat Plate Boundary Layer, *Aerospace Faculty Research Day*, Technion, Israel, April 13, 2016. (Poster).
6. Gluzman, I.*, Cohen, J., Oshman, Y., Disturbance Source Identification for Flow Control: Problem Formulation for Infinitesimal Disturbances, *The Annual Workshop of Graduate Students in Systems & Control Under the auspice of IAAC – the Israeli Association for Automatic Control*, Holon, Israel, May 2, 2016.
7. Gluzman, I.*, Cohen, J., Oshman, Y., Novel Method and Experimental Validation of Statistical Calibration via Gaussianization in Hot-wire Anemometry, *The 69th Annual Meeting of the American Physical Society – Division of Fluid Dynamics*, Portland, OR USA, November 20–22, 2016.
8. Gluzman, I.*, Cohen, J., Oshman, Y., Statistical Calibration of Hot-Wire Anemometer, *The 2017 Annual Aerospace Faculty Research Day*, Technion, Israel, April 19, 2017. (Poster). **Won Poster Award.**
9. Gluzman, I.*, Cohen, J., Oshman, Y., Disturbance Source Separation in Shear Flows Using the Degenerate Unmixing Estimation Technique (DUET), *The Annual Workshop of Graduate Students in Systems & Control Under the auspice of IAAC – the Israeli Association for Automatic Control*, Haifa, Israel, May 8, 2017.
10. Gluzman, I.*, Cohen, J., Oshman, Y., Disturbance Source Separation in Shear Flows Using Blind Source Separation Methods, *The 70th Annual Meeting of the American Physical Society – Division of Fluid Dynamics*, Denver, CO USA, November 19–21, 2017.
11. Gluzman, I., Oshman, Y., Cohen, J., Estimation of Disturbance Propagation Velocity in Transitional Shear Flow, *Graduate Seminar in Fluid Mechanics*, Department of Mechanical Engineering, Johns Hopkins University, Baltimore, MD USA, May 4, 2018.
12. Gluzman, I., Gayme, D. F., Energy Amplification and Flow Structure Evolution in Boundary Layers due to Localized Forcing, *Graduate Seminar in Fluid Mechanics*, Department of Mechanical Engineering, Johns Hopkins University, Baltimore, MD USA, November 9, 2018.
13. Gluzman, I., Gayme, D. F., Energy Amplification and Coherent Structure Evolution due to Localized Forcing in Flat Plate Boundary Layer Flow, *The 71th Annual Meeting of the American Physical Society – Division of Fluid Dynamics*, Atlanta, GA USA, November 18–20, 2018.
14. Gluzman, I., Gayme, D. F., Input-Output Framework for Actuated Boundary Layers, *2019 Research Symposium on Environmental and Applied Fluid Dynamics*, Johns Hopkins University, Baltimore, MD USA, May 30, 2019.
15. Gluzman, I., Gayme, D. F., An Input-Output Approach to Evaluating Flow Response to Spatially Varying Actuator Geometries, *17th European Turbulence Conference*, Torino, Italy, September

ber 3–6, 2019.

16. **Gluzman, I.**, Gayme, D. F., An Input-Output Approach to Investigate the Effects of Actuator Geometry, *Graduate Seminar in Fluid Mechanics*, Department of Mechanical Engineering, Johns Hopkins University, Baltimore, MD USA, September 13, 2019.
17. **Gluzman, I.**, Gayme, D. F., A Model-Based Investigation of the Effect of Actuator Geometry on Boundary Layer Flows, *The 72nd Annual Meeting of the American Physical Society – Division of Fluid Dynamics*, Seattle, WA USA, November 23–26, 2019.
18. **Gluzman, I.**, Gayme, D. F., Input-output approach to characterizing the structure interaction in turbulent boundary layers, *Graduate Seminar in Fluid Mechanics*, Department of Mechanical Engineering, Johns Hopkins University, Baltimore, MD USA, February 28, 2020.
19. **Gluzman, I.**, Thomas, F. O., Aviation Fuel Cavitation Model Development and Validation, *Friday Fluids Discussions*, Department of Aerospace and Mechanical Engineering, University of Notre Dame, Notre Dame, IN, USA, April 22, 2021.
20. **Gluzman, I.**, Thomas, F. O., Bubble dynamics and cavitation inception mechanism characterization in aviation fuel liquids via computer vision tools, *The 74th Annual Meeting of the American Physical Society – Division of Fluid Dynamics*, Phoenix, AZ USA, November 21–23, 2021.
21. **Gluzman, I.**, Thomas, F. O., Shock wave emission and evolution mechanisms in aerated cavitating aviation fuel flow in a converging-diverging nozzle, *The 74th Annual Meeting of the American Physical Society – Division of Fluid Dynamics*, Phoenix, AZ USA, November 21–23, 2021.
22. Pelster, A.* , **Gluzman, I.**, Thomas, F. O., Experiments and Modeling of Aviation Fuel Cavitation in a Geometry Relevant to Aircraft Fuel Pumps, *The 75th Annual Meeting of the American Physical Society – Division of Fluid Dynamics*, Indianapolis, IN USA, November 20–22, 2022.
23. Gray P.* , **Gluzman, I.**, Thomas F. O., Corke T. C., Mejia K., Coherent Vortical Structures in the Separated Flow over a 3-D Hump, *The 75th Annual Meeting of the American Physical Society – Division of Fluid Dynamics*, Indianapolis, IN USA, November 20–22, 2022.
24. **Gluzman, I.**, Pelster, A., Thomas F. O., Modeling and experimental characterization of aviation fuel cavitation in the radial flow between two parallel disks, *62nd Israel Annual Conference on Aerospace Sciences*, Tel-Aviv, Israel, March 15–16, 2023.
25. **Gluzman, I.**, Gray*, P., Corke T. C., Thomas F. O., Accurate skin friction measurement over 3D surfaces via a simplified photogrammetry procedure in oil-film interferometry, *62th Israel Annual Conference on Aerospace Sciences*, Tel-Aviv, Israel, March 15–16, 2023.
26. Gray, P.* , **Gluzman, I.**, Thomas F. O., Corke, T. C., Experimental Investigation of Embedded Shear Layer in Smooth-body Separated Flow over Boeing Bump, *62nd Israel Annual Conference on Aerospace Sciences*, Tel-Aviv, Israel, March 15–16, 2023.
27. Frank-Shafir, O.* , **Gluzman, I.**, Input-output approach for modeling flow response to actuation in transitional boundary layer, *63rd Israel Annual Conference on Aerospace Sciences*, Tel-Aviv, Israel, May 9, 2024.
28. Zur, E.* , **Gluzman, I.**, Computer vision algorithms application for the characterization of bubble shock-wave morphology and their coupled interactions with bubbles in aerated cavitating flow, *63rd Israel Annual Conference on Aerospace Sciences*, Tel-Aviv, Israel, May 9, 2024.
29. Gabison, S. M.* , **Gluzman, I.**, Computer vision algorithms application for tracking and characterization of bubble breakup dynamics in the nozzle flow of multicomponent liquids, *63rd Israel Annual Conference on Aerospace Sciences*, Tel-Aviv, Israel, May 9, 2024.
30. Vaizman, E.* , **Gluzman, I.**, Investigation of near-wall scatter of scaled inflectional mean velocity profiles of turbulent separated flow over the Gaussian bump, *63rd Israel Annual Conference on Aerospace Sciences*, Tel-Aviv, Israel, May 9, 2024.
31. Frank-Shafir, O.* , **Gluzman, I.**, Modeling energy pathways in transitional boundary layers, *Aerospace Faculty Research Day*, Technion, Israel, May 24, 2024. (Poster)
32. Zur, E.* , **Gluzman, I.**, Adaptation of computer vision algorithms for the characterization of

- bubbly shock-wave morphology and their coupled interactions with bubbles in aerated cavitating flow, *Aerospace Faculty Research Day*, Technion, Israel, May 24, 2024. (Poster).
33. Vaizman, E.*, **Gluzman, I.**, New scaling of inflectional mean velocity profiles in turbulent separated flow *Aerospace Faculty Research Day*, Technion, Israel, May 24, 2024. (Poster)
 34. Frank-Shafir, O.*, **Gluzman, I.**, Reynolds number effect on flow structure dominance in transitional boundary layers. The 77th Annual Meeting of the American Physical Society – Division of Fluid Dynamics, Salt Lake City, UT USA, November 24–26, 2024.
 35. Zur, E.*, **Gluzman, I.**, Utilization of computer vision algorithms for the characterization of coupled interactions between bubbly shocks and cavitation cloud, *64th Israel Annual Conference on Aerospace Sciences*, Hiafa, Israel, March 20, 2025.
 36. Salunke, S.*, **Gluzman, I.**, Modelling steady features of cavitation in radial flow between two overlying disks with varying gaps, *64th Israel Annual Conference on Aerospace Sciences*, Hiafa, Israel, March 20, 2025.
 37. Baruch, R.*, **Gluzman, I.**, Investigation of oil flow topology, pressure distribution, and drag in separated flow over low-Reynolds-number airfoil, *64th Israel Annual Conference on Aerospace Sciences*, Hiafa, Israel, March 20, 2025.
 38. Frank-Shafir, O.*, **Gluzman, I.**, Stability analysis of shear flows and boundary layers via novel stability criterion that utilizes the small gain theorem, *64th Israel Annual Conference on Aerospace Sciences*, Hiafa, Israel, March 20, 2025.
 39. Frank-Shafir, O.*, **Gluzman, I.**, A novel approach for analysing the stability of shear flows and boundary layers via concepts from the fields of robust and nonlinear control theory, *2025 IAAC Control Conference*, Herzliya, Israel, April 28, 2025.
 40. Zur, E.*, **Gluzman, I.**, Utilization of computer vision algorithms for the characterization of bubbly shock morphology in aerated cavitating flows, *Aerospace Faculty Research Day*, Technion, Israel, May 07, 2025. (Poster).
 41. Salunke, S.*, **Gluzman, I.**, Cavitation in radial flow between two overlying disks with thin varying gap, *Aerospace Faculty Research Day*, Technion, Israel, May 07, 2025. (Poster).
 42. Salunke, S.*, **Gluzman, I.**, Experimental characterization and modeling of cavitation in radial flow between two overlying disks with varying gap. The 70th Annual Meeting of the Israel Physical Society – Fluid Mechanics session, Technion - Israel Institute of Technology, Haifa, July 15, 2025.
 43. Frank-Shafir, O.*, **Gluzman, I.**, Disturbance-based criterion for analyzing the stability of shear flows utilizing input-output analysis and the small gain theorem, *The 78th Annual Meeting of the American Physical Society – Division of Fluid Dynamics*, Houston, Texas, USA, November 23-25, 2025. (Submitted)
 44. Salunke, S.*, **Gluzman, I.**, Radial flow cavitation between two overlying plates with varying gap: experiments and modeling, *The 78th Annual Meeting of the American Physical Society – Division of Fluid Dynamics*, Houston, Texas, USA, November 23-25, 2025. (Submitted)

NOTES

Undergraduate Research and Experimental Projects

Students denoted by (*).

1. Frank-Shafir, O.*, **Gluzman, I.**, Modeling of complex actuation modalities in transitional boundary layers, *Final Report submitted to Faculty of Aerospace Engineering, Technion*, publisher [AE Website](#), 2024.
2. Zur, E.*, **Gluzman, I.**, Extension of computer vision algorithms for characterization of coupled interactions between shockwaves and cavitation cloud, *Final Report submitted to Faculty of Aerospace Engineering, Technion*, publisher [AE Website](#), 2024.
3. Gabison, S. M.*, **Gluzman, I.**, Computer Vision Algorithms Application for Tracking and Characterization of Non-Spherical Bubbles in Cavitating Flows, *Final Report submitted to Faculty of Aerospace Engineering, Technion*, publisher [AE Website](#), 2024. **Seginer Award winner for exceptional research project.**
4. Vaizman, E.*, **Gluzman, I.**, Investigation of near-wall scatter of scaled inflectional mean velocity profiles of turbulent separated flow over the Gaussian bump geometry, *Final Report submitted to Faculty of Aerospace Engineering, Technion*, publisher [AE Website](#), 2024.
5. Frank-Shafir, O.*, **Gluzman, I.**, Modeling energy pathways with nonlinear interactions in transitional flows, *Final Report submitted to Faculty of Aerospace Engineering, Technion*, publisher [AE Website](#), 2024. **Travel grant award winner for exceptional research project to attend the 2024 AIAA Region VII Student Conference.**
6. Zur, E.*, **Gluzman, I.**, Experimental setup design and utilization of computer vision algorithms for the characterization of coupled interactions between bubbly shocks and cavitation cloud, *Final Report submitted to Faculty of Aerospace Engineering, Technion*, publisher [AE Website](#), 2024.
7. Sella, G.*, Haiman S.*, **Gluzman, I.**, Wind Tunnel Design Project, *Final Report submitted to Faculty of Aerospace Engineering, Technion*, 2024.
8. Bulkowstein, S.*, **Gluzman, I.**, Skin friction measurement over delta wing using photogrammetric oil film interferometry, *Final Report submitted to Faculty of Aerospace Engineering, Technion*, 2025.
9. Baruch, R.*, **Gluzman, I.**, Investigation of oil flow topology, pressure distribution, and drag in separated flow over low-Reynolds-number airfoil, *Final Report submitted to Faculty of Aerospace Engineering, Technion*, publisher [AE Website](#), 2025.
10. Baruch, R.*, **Gluzman, I.**, Investigation of separated flow physics over low-Reynolds-number airfoil via PIV, *Final Report submitted to Faculty of Aerospace Engineering, Technion* 2025.