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 CURRICULUM VITAE—
 

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YouTube: <https://www.youtube.com/c/DjordjeRomanic/>

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 EMPLOYMENT HISTORY
 

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**Current**

**2020–**            **Assistant Professor**—Department of Atmospheric and Oceanic Sciences, McGill University, Montreal, Qc, Canada

**2020–**            **Adjunct Research Professor**—Department of Civil & Environmental Engineering, Western University, London, On, Canada

**Past**

**2019–2020**      **Postdoctoral Scientist**—Department of Civil, Chemical and Environmental Engineering (DICCA), Polytechnic School, University of Genoa, Genoa, Italy

**2016–2020**      **Postdoctoral Associate**—WindEEE Research Institute, Western University, London, On, Canada

**2012–2016**      **Research and Teaching Assistant**—WindEEE Research Institute and Western University, London, On, Canada

**2011–2012**      **Meteorologist**—Republic Hydrometeorological Service of Serbia, Belgrade, Serbia

**2010–2011**      **Wind and Solar Power Team Leader**—South East Europe Consultants (S.E.E.C.) Ltd., Belgrade, Serbia

**2007–2010**      **Meteorology Consultant**—South East Europe Consultants (S.E.E.C.) Ltd., Belgrade, Serbia

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 EDUCATION
 

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**2012–2016**      **Doctor of Philosophy**  
Civil & Environmental Engineering, Western University, Canada  
**Thesis:** “Multiscale Wind Modelling for Sustainability and Resilience”

**2009–2016**      **Doctor of Philosophy**  
Institute of Meteorology, Faculty of Physics, University of Belgrade, Serbia  
**Thesis:** “Dynamic Characteristics of the Koshava Wind”

**2002–2008**      **Master and Bachelor of Meteorology**  
Institute of Meteorology, Faculty of Physics, University of Belgrade, Serbia  
**Thesis:** “WAsP and Wind Resource Assessment Modelling”

**AWARDS**

- 2023**      **Science Education Conference Award (SECA)**—Share ideas and bring back fresh ones from a conference to impart to colleagues and peers, thereby further nourishing the process of learning within the Faculty of Science.
- 2019**      **Postdoctoral Scholar of the Year**—Graduate Teaching Assistant and Postdoctoral Associate Union at Western University. All departments at the Western University considered. (\$500)
- 2016**      **Global Opportunities Award**—Western University (\$1,000). This is a competitive scholarship for international learning given based on research merit. This scholarship enabled me to travel to the University of Genoa (Italy) during my PhD studies in 2016. The trip to Genoa was focused on thunderstorm wind measurements and research exchanges, study of abroad programs, and field research ([https://international.uwo.ca/learning/go\\_abroad/global\\_opps\\_awards.html](https://international.uwo.ca/learning/go_abroad/global_opps_awards.html))
- 2016**      **WISE Competition 1<sup>st</sup> Place co-winner**—Western University (\$1,250). The aim of the competition is to generate ideas and initiatives among Western's students around the topic of sustainability. My proposal provided experimental evidence to support the installation of occupancy sensor lighting in campus buildings. ([https://sustainability.uwo.ca/wise/2016\\_winners.html](https://sustainability.uwo.ca/wise/2016_winners.html))
- 2016**      **The Ross and Jean Clark Scholarship**—Western University (\$1,100). A competitive award given to two graduate students specializing in environmental engineering who have achieved a minimum 80% academic average, demonstrated excellence in research, and demonstrate financial need. Selection to be made by the Graduate Committee of the Faculty of Engineering Science on the recommendation of the Associate Dean, Research and Graduate Studies. (<https://www.eng.uwo.ca/graduate/funding/scholarships1.html>)
- 2016**      **Student Delegate Winner at C4 CatIQ Conference**—CatIQ Canadian Catastrophe Conference (C4) (\$1,000). C4 CatIQ Conference selects four best hazard modelling papers proposed by graduate students across Canada.
- 2015**      **Dr. Robert Addie Scholarship in Wind Engineering**—Western University (\$2,000). Awarded annually to a full-time graduate student pursuing a Master's or Doctoral degree in engineering, based on the academic achievement and research merit. My PhD research on downbursts in the WindEEE Dome was awarded. (<https://www.eng.uwo.ca/graduate/funding/scholarships1.html>)
- 2015**      **Alan G. Davenport Memorial Scholarship**—Western University (\$1,600). Awarded to a full-time graduate student conducting research in the Civil and Environmental Engineering within the Alan G. Davenport Wind Tunnel Program. The award is competitive and based on academic achievement. (<https://www.eng.uwo.ca/graduate/funding/scholarships1.html>)
- 2008**      **Best Student in Class**—Institute of Meteorology, Faculty of Physics, University of Belgrade (non-monetary recognition).
- 2007–2008**      **Ministry of Science and Education of Republic of Serbia Scholarship**—Ministry of Science and Education of Republic of Serbia (RSD70,000 = ~\$1,000).

- 2007**            **300 Best Undergraduate Students in Serbia**—European Movement in Serbia (paid 1-month trip through the European Union countries).

## SELECTED ACADEMIC ACTIVITIES AND SERVICES

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### Academic Services

- 2023–2024        Third National Conference on Wind Engineering (3NCWE). Scientific committee board member
- 2022–            TDI Advisory Board on Climate Change Committee
- 2022              “Would you fund it?” mentor for students and postdocs submitting research proposals to NSERC
- 2021–            Faculty Scholarships Committee (Faculty of Science, McGill University)
- 2021–            Graduate Admission Committee (Department of Atmospheric and Oceanic Sciences, Faculty of Science, McGill University)
- 2021–            Undergraduate and Graduate Student Recruitment Committee (Department of Atmospheric and Oceanic Sciences, Faculty of Science, McGill University)
- 2021–2022      Graduate Mobility Award Committee (Faculty of Science, McGill University)
- 2021              Faculty Student Speed Networking—Undergraduate Student Interviews (McGill University)
- 2021              The Soup and Science Orientation Presentation (McGill University)
- 2021              AOS Faculty Research Presentations (Department of Atmospheric and Oceanic Sciences, Faculty of Science, McGill University)
- 2018–2020      WindEEE RI Research Committee Member (Western University)

### Refereeing

Atmospheric sciences ranked alphabetically (number of reviews)

- Atmosphere (2)
- Atmospheric Research (87)
- International Journal of Climatology (10)
- Journal of Applied Meteorology and Climatology (2)
- Journal of Geophysical Research—Atmosphere (2)
- Journal of the Atmospheric Sciences (2)
- Meteorological Applications (2)
- Meteorology and Atmospheric Physics (1)
- Urban Climate (3)

Applied sciences and engineering ranked alphabetically (number of reviews)

- Applied Energy (1)
- Computation (1)
- Energy Exploration & Exploitation (2)
- Frontiers in Built Environment (1)
- International Journal of Disaster Risk Reduction (2)
- International Journal of Electrical Power and Energy Systems (1)
- Journal of Fluid Mechanics (2)
- Journal of Structural Engineering (1)
- Journal of Wind Engineering and Industrial Aerodynamics (27)
- Natural Hazards Review (2)
- Renewable Energy (5)
- RBRH, Brazilian Journal of Water Resources (1)

- Sustainable Cities and Society (6)
- Wind Energy Science (2)

#### Research grant proposals (Years)

- Mitacs Accelerate Grant (2022)
- NSERC Alliance grant application (2021)
- European Research Council (ERC), Consolidator grant (2021)

#### Science Communication and Outreach

- YouTube channel on atmospheric sciences, wind engineering, and wind energy: <https://www.youtube.com/c/DjordjeRomanic/>
- 2023, September 17. Dawson College—Enriched Science program students: The atmosphere and oceans around us.
- 2023, September 4. Science News: How thunderstorms can spawn damaging 'downbursts'.
- 2023, July 26. The Canadian Press published in The Globe and Mail: Heat warnings in Canada: How the alert system for hot weather varies across the county.
- 2023, July 20. CBC Radio One -- Radio Noon Quebec with Leah Hendry: All About Tornadoes.
- 2023, July 11. CBC Radio One -- Let's Go with Sabrina Marandola: Thunderstorms and summer.
- 2023, June 5. Montreal Now on CJAD 800 Live: Rising tide and the tragic fishing accident in Quebec.
- 2023, May 21. 580 CFRA Live: Rising earth temperature and what it means for Canada?
- 2023, May 17. CBC News: Flirting with climate danger: UN forecasts 2 in 3 chance of briefly hitting key heat limit soon.
- 2022, July 11. Montreal Gazette YouTube Channel: Why is wind so important?
- 2022, July 11. Montreal Gazette: Hold onto your hats, it's windier in Montreal.
- 2021, April 21. MTL Blog: Why is it snowing in Montreal.
- 2019, March 14. The London Free Press: Ottawa tornado breaks new ground for London researchers

#### RESEARCH PROJECTS AND FUNDING AS INDEPENDENT RESEARCHER

Year	Project Name	Amount	Role, Funding agency, Affiliation
2023–2025	Dynamique et évolution de la couche limite urbaine sur Montréal, Québec	CAD60,000	Principal Investigator, Fonds de recherche Nature et technologies (FRQNT), McGill
2023	Predicting the local impact of regional extreme weather events in smart cities	CAD2,800	Principal Investigator. Co-leads (L. Sushama and R. Sengupta), Computational and Data System Initiative, McGill
2022–2024	Ventilation effectiveness in reducing aerosol particle concentrations in classrooms and graduate student offices	CAD165,000	Principal Investigator, Canadian Institutes of Health Research, McGill

	pertaining to the COVID-19 pandemic		
2022	Hurricane Elsa: Case study	–	Principal Investigator, McGill-UWI Queen Elizabeth Scholars Program, McGill
2022–2027	An analysis of the distribution, variability and source apportionment of GHGs in Greater Montreal	CAD1,798,075	Co-lead, Advancing Climate Change Science and Technology, Climate Action and Awareness Fund, Environment and Climate Change Canada, Government of Canada, McGill
2021–2022	Urban sustainability and resilience to thunderstorm winds	CAD5,000	Principal Investigator, McGill's NSERC General Research Grant, McGill
2021–2024	Urban boundary-layer processes and their links to sustainability and resilience	CAD280,449	Principal Investigator, John R. Evans Leaders Fund (CFI), McGill
2020–2026	Urban sustainability and resilience to thunderstorm winds	CAD12,500	Principal Investigator, NSERC Discovery Launch Supplement, McGill
2020–2026	Urban Sustainability and Resilience to Thunderstorm Winds	CAD125,000	Principal Investigator, NSERC Discovery, McGill
2020–2022	An analytical model of the interaction between the thunderstorm downbursts and ambient winds	CAD50,000	Principal Investigator, Wares Science Innovation Prospectors Fund, McGill
2020–2023	Start-Up Fund	CAD150,000	Principal Investigator, McGill
2019–2021	Tornado hazard and exposure model for Canadian communities	CAD110,000	Postdoctoral Fellow, awarded by (1) Institute for Catastrophic Loss Reduction (2) MITACS, Western University.

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**RESEARCH/INDUSTRY PROJECTS AS A POSTDOCTORAL COLLABORATOR AND CONSULTANT**


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Year	Project Name. Country	Amount	My Role
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2019	Experimental investigation of lighting pole responses under tornadic wind loads: Pressure and aeroelastic testing. Canada	CAD20,000	Internal WindEEE RI (Western University) funds support innovative ideas for experimental research in the WindEEE Dome. I wrote this proposal under the supervisor of Prof. H. Hangan. Research was performed by me and internship researcher (H. Shoji from Japan).
2016–2017	Wind impact studies for the Kansas Project Phases I (Tornado climatology and Site analysis and site climatology) and II (Wind loads and Wind Resource Assessment). United States	US\$217,000	Awarded by Another Design Experiment Inc. (United States). Project proposal was written by me and Prof. H. Hangan ( <a href="http://www.eng.uwo.ca/civil/faculty/hangan_h/projects.html">www.eng.uwo.ca/civil/faculty/hangan_h/projects.html</a> )
2010–2011	Wind potential assessment—Crni Vrh Project. Serbia	€55,000	Wrote proposal and project manager at S.E.E.C. Ltd. (Serbia) ( <a href="https://www.seec-bg.com/seec.php?id=SEEC_references">https://www.seec-bg.com/seec.php?id=SEEC_references</a> )
2009–2010	Košava 117 MW Wind Farm Development. Serbia	€45,000	Co-developed proposal as a consultant for MK Fintel Wind
2009–2010	Wind potential assessment—Kladovo Project. Serbia	€90,000	Client: Decotra Srl, Italy and EKO – KI. Wrote proposal and project manager at S.E.E.C. Ltd.
2009–2011	Wind potential assessment—Kula Project. Serbia	€24,500	Developed proposal, Electric Power Industry of Serbia
2009–2011	Wind potential assessment—Žabljak Project. Montenegro	€55,000	Developed proposal, S.E.E.C. Ltd.
2007–2010	“La Piccolina” 6MW wind farm development. Serbia	€45,000	Client: MK Fintel Wind, Serbia. Co-developed proposal and consultant (later project manager) at S.E.E.C. Ltd.
2008–2009	Wind potential assessment—Gacko Project. Bosnia and Herzegovina	€50,000	Client: Herzeg Wind d.o.o. - Trebinje, Bosnia and Herzegovina. Wrote proposal and consultant at S.E.E.C. Ltd.
2007–2009	Project and tender documentation preparation for equipment procurement and wind potential assessments—Šušara Project. Serbia	€60,000	Client: FINTEL Multiservizi Srl, Italy. Wrote proposal and consultant at S.E.E.C. Ltd.

2007– 2009	Wind potential assessment— Vračev Gaj Project. Serbia	€40,000	Client: FINTEL Multiservizi Srl, Italy. Wrote proposal and consultant (later project manager) at S.E.E.C. Ltd.
2007– 2009	Wind potential assessment— Kruščica Project. Serbia	€40,000	Client: FINTEL Multiservizi Srl, Italy. Co-developed proposal as a consultant for S.E.E.C. Ltd.

## TEACHING

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<b>2023</b>	<b>Course Instructor</b> —McGill University, Montreal, Qc Caribbean Weather and Climate ATOC 351 (undergraduate) Part of Barbados Field Study Semester program
<b>2023</b>	<b>Course Instructor</b> —McGill University, Montreal, Qc Science of Storms ATOC 184 (undergraduate)
<b>2022</b>	<b>Course Instructor</b> —McGill University, Montreal, Qc Mesoscale Meteorology ATOC 548 (graduate)
<b>2021–2023</b>	<b>Course Instructor</b> —McGill University, Montreal, Qc Extreme-Weather and Climate-Change Physics ATOC 100 (undergraduate)
<b>2019</b>	<b>Course Instructor</b> —The University of Genoa, Genoa, Italy High Impact Weather and Thunderstorm Systems (graduate)
<b>2019</b>	<b>Guest Lecturer</b> —The University of Genoa, Genoa, Italy Atmospheric Physics 80518 (undergraduate)
<b>2018</b>	<b>Course Instructor</b> —Western University, London, On Wind Energy CEE 9531 (graduate)
<b>2013–2016</b>	<b>Teaching Assistant</b> —Western University, London, On Engineering Fluid Dynamics CEE 2224—2013, 2014, 2015, 2016 Natural Disasters: Mitigation, Modelling and Assessment CEE 4461—2013 Wind Engineering CEE 4480 (undergrad version)—2014 Wind Engineering CEE 9526 (graduate version)—2013, 2015

## INVITED TALKS

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<b>2023</b>	<b>Western University, School of Graduate and Postdoctoral Studies</b> London, Ontario, Canada Title: Academic jobs and interview process
<b>2023</b>	<b>University of Genoa, PhD Program in Security, Risk and Vulnerability</b> Genoa, Italy (presented remotely from Montreal, Canada) Title: Monte-Carlo Modelling of Tornado Losses and Resilience of Different Infrastructure
<b>2022</b>	<b>Lakehead University, Faculty of Engineering</b> Orillia, Ontario, Canada (presented remotely from Montreal, Canada) Title: Atmospheric Science and Wind Engineering Aspects of Downbursts

- 2021 International Advanced School on Thunderstorm Outflows and Their Impact on Structures**  
University of Genoa, Italy (presented remotely from Montreal, Canada)  
Title: A Study of Nocturnal Thunderstorm Outflow
- 2021 University of Genoa, PhD Program in Security, Risk and Vulnerability**  
Genoa, Italy (presented remotely from Montreal, Canada)  
Title: Monte-Carlo Modelling of Tornado Losses and Resilience of Residential Homes
- 2020 McGill University, Department of Atmospheric and Oceanic Sciences**  
Montreal, Quebec, Canada  
Title: Thunderstorm Boundary-Layer Dynamics and their Links to Sustainability and Resilience
- 2019 University of Stavanger, Department of Mechanical and Structural Engineering and Materials Science**  
Stavanger, Norway  
Title: Statistical and Physical Modelling of Thunderstorm Downbursts
- 2019 Risø Technical University of Denmark (DTU)**  
Roskilde, Denmark  
Title: Statistical and Physical Modelling of Thunderstorm Downbursts
- 2018 University of Cologne, Institute of Geophysics and Meteorology**  
Cologne, Germany  
Title: Transient and Non-Gaussian Nature of Thunderstorm Winds: Mathematical and Physical Modelling
- 2018 University of Belgrade, Faculty of Physics**  
Belgrade, Serbia  
Title: Mathematical and Physical Modelling of Thunderstorm Winds
- 2016 CatIQ Canadian Catastrophe Conference (C4)**  
Toronto, Ontario, Canada  
Title: Oklahoma Tornado Loss Model
- 2011 Republic Hydrometeorological Service of Serbia**  
Belgrade, Serbia  
Title: Meteorological Applications in Wind Energy Sector

## STUDENTS SUPERVISION

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### PhD students (4)

- 2024– Ahmed Maky**—McGill University (Civil Engineering; with Prof. M. Bezabeh)  
Research: Downburst and seismic loads on wooden structures
- 2022– Quinn Dyer-Hawes**—McGill University (AOS)  
Research: Numerical modelling of GHG dispersion in downtown Montreal
- 2022–2023 Ninghui Li**—McGill University (AOS)  
Research: Urban boundary layer winds over downtown Montreal
- 2021– Mohammad Hadavi**—McGill University (AOS)  
Research: Urban sustainability and resilience to thunderstorm winds.



**MSc students (6)**

- 2023–** **Arya Toghraei**—McGill University  
Research: Ventilation effectiveness in reducing aerosol particle concentrations in classrooms and graduate student offices
- 2023–** **Ruijia Yang**—McGill University  
Research: Physical simulation of tornadic wind loads and actions on buildings with realistic design.
- Received 2023 FRQNT master's training scholarship.
- 2021–2023** **Katie Simzer**—McGill University  
Research: Thunderstorm wind retrieval by combining Doppler radar and scaled-up wind tunnel measurements.
- 2020–2022** **Masoud Moeini**—McGill University  
Research: Analytical modelling of the interaction between thunderstorm downbursts and atmospheric boundary layer winds.
- Received 2021 Peter Zwack Award for excellent academic performance.
- 2019** **Andrea Ballestracci**—University of Genoa (Italy) & Western University (Canada)  
Research: Aerodynamics of circular cylinders with free end immersed in experimentally produced downburst-like outflows.
- 2017–2018** **Edoardo Nicolini**—University of Genoa (Italy) & Western University (Canada)  
Research: Scaling of experimentally produced downburst-like impinging jets.

**Undergraduate students (6)**

- 2023** **Patrick Lane**—McGill University  
Research: Surface pressures in downburst-like outflows
- 2023** **Lalita Allard Vava**—CÉGEP John Abbott College  
Research: Analysis of downburst kinematics using a video recording of the Tucson, Arizona downburst event
- 2022–2023** **Lucas Petropoulos**—McGill University  
Research: User-friendly interface for assessment of analytical downburst models
- 2022–2023** **Katya Britton**—McGill University  
Research: User-friendly interface for assessment of analytical downburst models
- 2022** **Romane Bouchard**—McGill University  
Research: Monte Carlo modelling of tornado damage to wind farms over Germany.
- Received 2022 USRA NSERC undergraduate research award.
- 2021** **Joseph Samuel**—McGill University  
Research: Vulnerability and fragility curves of wind turbines in tornadoes.
- 2021** **Lutong Sun**—McGill University  
Research: Economic losses caused by severe winds in Quebec and Ontario.
- Received 2021 SURA undergraduate research award.

**Internship students and researchers (3)**

- 2022** **Sanola Sandiford**—Caribbean Institute for Meteorology and Hydrology (Barbados)
- 2018** **Sévan Massimo**—Western University (Canada) & ENSEEIHT (France)
- 2018–2019** **Hiroaki Shoji**—Western University (Canada) & Shimizu Corporation (Japan)

**PUBLICATIONS**


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*Journal Articles (J)*

- J41. **Romanic D.** Kassab A, Chowdhury J, Hangan J, Doddipatla L. 2023. An analysis of the influence of a generic building on tornadic flow fields using high-frequency PIV and point velocity measurements. *Journal of Fluids and Structures*. Doi: 10.1016/j.jfluidstructs.2023.104010.
- J40. Canepa F, Burlando M, Hangan H, **Romanic D.** 2023. Experimental translating downbursts immersed in the atmospheric boundary layer. *Journal of Wind Engineering and Industrial Aerodynamics*. Doi: 10.1016/j.jweia.2023.105570.
- J39. Dellwik E, **Romanic D.** Mann J, Enus M, Hangan H. 2023. Forest edge representation in scaled experiments: A flexible approach for matching to field observations. *Boundary-Layer Meteorology*. Doi: 10.1007/s10546-023-00796-z.
- J38. Bouchard R, **Romanic D.** 2023. Monte Carlo modeling of tornado hazard to wind turbines in Germany. *Natural Hazards*. Doi: 10.1007/s11069-023-05843-z.
- J37. **Romanic D.** Shoji H, Hangan H. 2022. Experimental investigation of surface pressures, velocities, and dynamic structural analysis of tornadic winds on a luminary pole. *Journal of Fluids and Structures*. Doi: 10.1016/j.jfluidstructs.2022.103794.
- J36. Moeini M, **Romanic D.** 2022. An analytical solution to the perturbation analysis of the interaction between downburst outflows and atmospheric boundary layer winds. *Journal of the Atmospheric Sciences*. Doi: 10.1175/JAS-D-22-0123.1.
- J35. Hadavi M, Sun L, **Romanic D.** 2022. Normalized insured losses caused by windstorms in Quebec and Ontario, Canada, in the period 2008–2021. *International Journal of Disaster Risk Reduction*. 80. Doi: 10.1016/j.ijdr.2022.103222.
- J34. **Romanic D.** Taszarek M, Brooks H. 2021. Convective environments leading to microburst, macroburst and downburst events across the United States. *Weather and Climate Extremes*. Doi: 10.1016/j.wace.2022.100474.
- J33. Canepa F, Burlando M, **Romanic D.** Solari G, Hangan H. 2021. Experimental investigation of the near-surface flow dynamics in downburst-like impinging jets. *Environmental Fluid Mechanics*. Doi: 10.1007/s10652-022-09870-5.
- J32. Canepa F, Burlando M, **Romanic D.** Solari G, Hangan H. 2021. Downburst-like experimental impinging jet measurements at the WindEEE Dome. *Scientific Data*, 9 (243). Doi: 10.1038/s41597-022-01342-1.
- J31. Canepa F, Burlando M, Hangan H, **Romanic D.** 2022. Experimental investigation of the near-surface flow dynamics in downburst-like impinging jets immersed in ABL-like winds. *Atmosphere*, 13 (4): 621. Doi: 10.3390/atmos13040621.
- J30. **Romanic D.** 2021. Mean flow and turbulence characteristics of a nocturnal downburst recorded on a 213 m tall meteorological tower. *Journal of the Atmospheric Sciences*, 78(11): 3629–3650. Doi: 10.1175/JAS-D-21-0040.1.

- J29. Nichol S, Carriveau R, Miller L, Ting D S-K, **Romanic D**, Costache A, Hangan H. 2021. Experimental investigation of the movement of an offshore floating platform in straight wind, tornadic wind, and downburst conditions. *Energies*, 14(7). Doi: 10.3390/en14072020.
- J28. Ashrafi A, **Romanic D**, Kassab A, Hangan H, Ezami N. 2020. Experimental investigation of large-scale tornado-like vortices. *Journal of Wind Engineering and Industrial Aerodynamics*, 208. Doi: 10.1016/j.jweia.2020.104449.
- J27. **Romanic D**, Ballestracci A, Canepa F, Solari G, Hangan H. 2020. Aerodynamic coefficients and pressure distribution on two circular cylinders with free end immersed in experimentally produced downburst-like outflows. *Advances in Structural Engineering*, 24(3): 522–538. Doi: 10.1177/1369433220958763.
- J26. **Romanic D**, Hangan H. 2020. Experimental investigation of the interaction between atmospheric boundary layer winds and downburst outflows. *Journal of Wind Engineering and Industrial Aerodynamics*, 205. Doi: 10.1016/j.jweia.2020.104323.
- J25. **Romanic D**, Junayed C, Jubayer C, Hangan H. 2020. Investigation of the transient nature of thunderstorm winds from Europe, the United States and Australia using a new method for detection of changepoints in wind speed records. *Monthly Weather Review*, 148: 3747–3771. Doi: 10.1175/MWR-D-19-0312.1.
- J24. Burlando M, **Romanic D**, Boni G, Lagasio M, Parodi A. 2020. Investigation of the weather conditions during the collapse of the Morandi Bridge in Genoa on 14 August 2018 using field observations and WRF model. *Atmosphere*, 11: 724. Doi: 10.3390/atmos11070724.
- J23. **Romanic D**, Nicolini E, Hangan H, Burlando M, Solari G. 2020. A novel approach to scaling experimentally produced downburst-like impinging jet outflows. *Journal of Wind Engineering and Industrial Aerodynamics*, 168: 104025. Doi: 10.1016/j.jweia.2019.104025.
- J22. Refan M, **Romanic D**, Parvu D, Michel G. 2019. Tornado loss model of Oklahoma and Kansas, United States, based on the historical tornado data and Monte Carlo simulation. *International Journal of Disaster Risk Reduction*, 43: 101369. Doi: 10.1016/j.ijdr.2019.101369.
- J21. Ćurić M, Lompar M, **Romanic D**. 2019. Implementation of a novel seeding material (NaCl/TiO<sub>2</sub>) for precipitation enhancement in WRF: Description of the model and spatiotemporal window tests. *Atmospheric Research*, 230: 104638. Doi: 10.1016/j.atmosres.2019.104638.
- J20. Ćurić M, Lompar M, **Romanic D**, Zou L, Liang H. 2019. Three-dimensional modelling of precipitation enhancement by cloud seeding in three different climate zones. *Atmosphere*, 10: 294. Doi: 10.3390/atmos10060294.
- J19. Jubayer C, **Romanic D**, Hangan H. 2019. Aerodynamic loading of a typical low rise building for an experimental stationary and non-Gaussian impinging jet. *Wind and Structures*, 28: 315–329. Doi: 10.12989/was.2019.28.5.315.
- J18. Junayed C, Jubayer C, Parvu D, **Romanic D**, Hangan H. 2019. Flow field dynamics of large-scale experimentally produced downburst flows. *Journal of Wind Engineering and Industrial Aerodynamics*, 188: 61–79. Doi: 10.1016/j.jweia.2019.02.008.

- J17. Hangan H, **Romanic D**, Jubayer C. 2019. Three-dimensional, non-stationary and non-Gaussian (3D-NS-NG) wind fields and their implications to wind-structure interaction problems. *Journal of Fluids and Structures* 91: 102583. Doi: 10.1016/j.jfluidstructs.2019.01.024.
- J16. **Romanic D**, LoTufo J, Hangan H. 2019. Transient behavior in impinging jets in crossflow with application to downburst flows. *Journal of Wind Engineering and Industrial Aerodynamics*, 184: 209–227. Doi: 10.1016/j.jweia.2018.11.020.
- J15. **Romanic D**. 2019. Local winds of Balkan Peninsula. *International Journal of Climatology*, 39: 1–17. Doi: 10.1002/joc.5743.
- J14. Lompar M, Ćurić M, **Romanic D**, Zou L, Liang H. 2018. Precipitation enhancement by cloud seeding using the shell structured TiO<sub>2</sub>/NaCl aerosol as revealed by new model for cloud seeding experiments. *Atmospheric Research*, 212: 202–212. Doi: 10.1016/j.atmosres.2018.05.021.
- J13. Petrović P, **Romanic D**, Ćurić M. 2018. Homogeneity analysis of wind data from 213 m high Cabauw tower. *International Journal of Climatology*, 38: e1076–e1090. Doi: 10.1002/joc.5434.
- J12. Lompar M, Ćurić M, **Romanic D**. 2018. Implementation of a gust front head collapse scheme in the WRF numerical model. *Atmospheric Research*, 203: 231–245. Doi: 10.1016/j.atmosres.2017.12.018.
- J11. Hangan H, Refan M, Jubayer C, **Romanic D**, Parvu D, LoTufo J, Costache A. 2017. Novel techniques in wind engineering. *Journal of Wind Engineering and Industrial Aerodynamics*, 171: 12–33. Doi: 10.1016/j.jweia.2017.09.010.
- J10. **Romanic D**, Hangan H, Ćurić M. 2017. Wind climatology of Toronto based on the NCEP/NCAR reanalysis 1 data and its potential relation to solar activity. *Theoretical and Applied Climatology*, 131: 827–843. Doi: 10.1007/s00704-016-2011-7.
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B6. **Romanic D**, Hangan H. 2020. Analytical and Semi-Empirical Models of Tornadoes and Downbursts. in: Hangan H and Kareem A (Eds.), *The Handbook of Non-Synoptic Wind Storms*. Oxford University Press. New York, New York, United States. Doi: 10.1093/oxfordhb/9780190670252.013.32.

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#### Data and Datasets (D)

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*Conference Papers and Presentations (C)*

C47. **Romanic D**. 2023. Monte Carlo modelling of natural hazard losses to critical infrastructure. Safety of infrastructure systems: concepts - regulations – practice. 12–13 October 2023. Belgrade, Serbia.

C46. Narancio G, **Romanic D**, Chowdhury J, Hangan H, Hong H.P. 2023. Can pressure coefficients obtained from ABL wind tunnel be used for tornadoes? 16<sup>th</sup> International Conference on Wind Engineering (ICWE16). 27–31 August 2023. Florence, Italy.

C45. Hangan H, Canepa F, Burlando M, **Romanic D**. 2023. Modelling of downbursts based on physical experiments. 16<sup>th</sup> International Conference on Wind Engineering (ICWE16). 27–31 August 2023. Florence, Italy.

C44. Xhelaj A, Zuzul J, Canepa F, Ricci A, **Romanic D**, Burlando M, Hangan H. 2023. Comparison between a stationary downburst-like impinging jet and analytical models. 16<sup>th</sup> International Conference on Wind Engineering (ICWE16). 27–31 August 2023. Florence, Italy.

C43. **Romanic D**, Hadavi M. 2023. Investigation of downburst-prone environments in Canada using machine learning methods. 16<sup>th</sup> International Conference on Wind Engineering (ICWE16). 27–31 August 2023. Florence, Italy.

C42. Gonzalez-Moguel R, Asomaning J, Douglas P, Vogel F, Ars S, Huang Y, **Romanic D**, Gyakum J. 2023. Mobile survey of greenhouse gas concentrations in Greater Montreal: Preliminary analysis of seasonal emissions variability and evaluation of spatial interpolation methods. 57<sup>th</sup> Canadian Meteorological and Oceanographic Society (CMOS) Congress. 28 May–1 June. St. John's, NL, Canada.

C41. Ghirardi B, Huang Y, Liu L, Gyakum J, Douglas P, **Romanic D**. 2023. Ground-based infrared hyperspectral profiling of atmospheric CO<sub>2</sub>. 57<sup>th</sup> Canadian Meteorological and Oceanographic Society (CMOS) Congress. 28 May–1 June. St. John's, NL, Canada.

C40. Hadavi M, **Romanic D**. 2023. Investigation of the atmospheric environments prone to downbursts in Canada using machine learning models. 57<sup>th</sup> Canadian Meteorological and Oceanographic Society (CMOS) Congress. 28 May–1 June. St. John's, NL, Canada.

C39. Hourngir D, Burlando M, **Romanic D**. 2022. Climatology of high-impact weather events in the Ligurian Sea. 17<sup>th</sup> Plinius Conference on Mediterranean Risks. 18–21 October 2022. Frascati, Italy.

C38. Narancio G, Hangan H, Hong H-P, **Romanic D**, Chowdhury J. 2022. Comparison of tornado-induced loads to ASCE/SEI 7-22 provisions for low-rise residential buildings. 8<sup>th</sup> European-African Conference on Wind Engineering (EACWE). 20–23 September 2022. Bucharest, Romania.

- C37. Canepa F, Burlando M, Hangan H, **Romanic D**. 2022. Physical simulations of the effects of ABL-like winds and storm translation on downburst-like outflows. 8<sup>th</sup> European-African Conference on Wind Engineering (EACWE). 20–23 September 2022. Bucharest, Romania.
- C36. Moeini M, **Romanic D**. 2022. Analytical model of interaction between downburst outflows and atmospheric boundary layer winds. 17<sup>th</sup> Conference on Wind Engineering—In-Vento 2022. 4–7 September 2022. Milano, Italy.
- C35. Canepa F, Burlando M, **Romanic D**, Hangan H. 2022. Effect of surface roughness on large-scale downburst-like impinging jet outflows. 17<sup>th</sup> Conference on Wind Engineering—In-Vento 2022. 4–7 September 2022. Milano, Italy.
- C34. Moeini M, **Romanic D**. 2022. An analytical solution to the interaction between downburst outflows and atmospheric boundary layer winds. Thousand Islands Fluid Dynamics Meeting 2022. 24–25 May 2022. Gananoque, Ontario, Canada.
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- C31. Benavent-Oltra, J. A., **Romanic, D.**, Lompar M., Burlando M. 2021. Comparison between the 2D wind fields retrieved by a scanning Doppler lidar and anemometric measurements. European Meteorological Society (EMS) Annual Meeting. Doi: <https://doi.org/10.5194/ems2021-370>.
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- C29. Narancio G, **Romanic D**, Chowdury J, Hangan H. 2020. Tornado hazard and exposure model for Canadian communities. Progress in Canadian Mechanical Engineering, vol. 3, Canadian Society for Mechanical Engineering International Congress (CSME 2020). 21–24 June 2020. Charlottetown, PEI, Canada. Doi: 10.32393/csme.2020.1212.
- C28. Narancio G, **Romanic D**, Chowdury J, Hangan H. 2020. Tornado hazard and exposure model for Canadian communities. 54<sup>th</sup> Canadian Meteorological and Oceanographic Society Congress (CMOS 2020). 26 May–10 June 2020. Ottawa, ON, Canada.
- C27. Dellwik E, Angelou N, Bekkers C, **Romanic D**. 2020. Downburst effect on a solitary oak tree. The 9th International Wind and Trees Conference (IUFRO 2020). 24–28 February 2020. Rotorua, New Zealand.
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- C25. **Romanic D**, Junayed C, Jubayer C, Hangan H. 2019. Investigation of abrupt changes in thunderstorm velocity record. The 15th International Conference on Wind Engineering (ICWE 2019). 1–6 September 2019. Beijing, China.
- C24. Ashrafi A, **Romanic D**, Hangan H. 2019. Flow properties for a large scale tornado-like vortex. The 15th International Conference on Wind Engineering (ICWE 2019). 1–6 September 2019. Beijing, China.
- C23. **Romanic D**, H. Shoji, H. Hangan. 2019. Dynamic structural analysis of scaled lighting pole model in physically simulated tornadic flow. 5th Symposium on Fluid-Structure-Sound Interactions and Control (FSSIC 2019). 27–30 August 2019. Crete, Greece.
- C22. Ashrafi A, **Romanic D**, Jubayer C, Hangan H. 2018. Producing 1/100 and larger scale tornadoes in a wind simulator. Tornado Hazard Wind Assessment and Reduction Symposium (THWARTS 2018). 26–27 September 2018. Champaign, IL, USA.
- C21. Jubayer C, **Romanic D**, Hangan H. 2018. Aerodynamics of tornado-like vortices around a low-rise building. Engineering Mechanics Institute (EMI) Conference 2018, American Society of Civil Engineers (ASCE). 29 May–1 June 2018. Boston, MA, USA.
- C20. **Romanic D**, Hangan H. 2019. The interplay between background atmospheric boundary layer winds and downburst outflows. A first physical experiment. XV Conference of the Italian Association for Wind Engineering (IN-VENTO 2018). 9–12 September 2018. Napoli, Italy.
- C19. Burlando M, **Romanic D**, Hangan H, Solari G. 2019. Wind tunnel experimentation on stationary downbursts at WindEEE. XV Conference of the Italian Association for Wind Engineering (IN-VENTO 2018). 9–12 September 2018. Napoli, Italy.
- C18. LoTufo J, **Romanic D**, Hangan H. 2017. Non-Gaussian turbulent flow over a coastal escarpment. International Conference on Future Technologies for Wind Energy (WindTech2017), 24–26 October 2017. Boulder, CO, USA.
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- C16. Jubayer C, Hangan H, **Romanic D**. 2017. Combined numerical and large scale experimental study of wind flow over a complex topographic terrain. 1000 Islands Fluid Mechanics Meeting (T.I.M. 2017), 21–23 April 2017. Gananoque, ON, Canada.
- C15. Karami M, **Romanic D**, Refan M, Hangan H. 2017. Modeling of tornado-like vortices. 1000 Islands Fluid Mechanics Meeting (T.I.M. 2017), 21–23 April 2017. Gananoque, ON, Canada.
- C14. Kassab A, **Romanic D**, Costache A, Hangan H. 2017. Simultaneous pressure and PIV measurements on low-rise building. 1000 Islands Fluid Mechanics Meeting (T.I.M. 2017), 21–23 April 2017. Gananoque, ON, Canada.



- C13. Jubayer C, **Romanić D**, Hangan H. 2017. Effect of a large scale impinging jet on a standard tall building. 7th European and African Conference on Wind Engineering (EACWE 2017), 3–6 July 2017. Liège, Belgium.
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- C11. Hangan H, Jubayer C, Refan M, **Romanic D**, Parvu D, LoTufo J, Costache A. 2016. New frontiers in wind engineering. 14th International Symposium on Structural Engineering (ISSE-14). 12–15 October 2016. Beijing, China.
- C10. **Romanic D**, Parvu D, Hangan H, Solari G, Burlando M. 2016. New methodology for determining downburst touchdown location. XIV Conference of the Italian Association for Wind Engineering (IN-VENTO 2016). 25–28 September 2016. Terni, Italy.
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- C7. **Romanic D**, Hangan H. 2015. Coupling of numerical weather prediction models and physical simulations for urban wind environment. 9th International Conference on Urban Climate (ICUC9). 20–24 July, 2015. Toulouse, France.
- C6. **Romanic D**, Hangan H. 2015. Urban wind resource assessment in changing climate: Case study. 4th Climate Change Technology Conference (CCTC 2015), 25–27 May 2015. Montreal, QC, Canada.
- C5. Siddiqui K, Hangan H, Bitsuamlak G, Mann J, Berg J, Refan M, Jubayer C, Kilpatrick R, **Romanic D**, Lange J. 2014. Energy related research at the WindEEE Research Institute. 1000 Islands Energy Research Forum, University of Ottawa, 23–25 October 2014. Ottawa, ON, Canada.
- C4. Rasouli A, **Romanić D**, Hangan H. 2014. Wind resource assessment in complex urban environments: Case study. Offshore Energy & Storage Symposium and Industry Connector Event 2014 (OSES 2014). 10–11 July 2014. Windsor, ON, Canada.
- C3. Rasouli A, **Romanić D**, Hangan H. 2014. Sustainable analysis for an urban block: Wind energy production. In: Proceedings of 6. International Symposium on Computational Wind Engineering. 428–429. June 8–12 2014. Hamburg, Germany.
- C2. **Romanić D**, Jovičić I. 2011. Influence of long-term wind speed changes on the wind farm production (In Serbian). Energetika 2011, 194–199. March 2011. Zlatibor, Serbia.

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Technical/consulting reports (R)

R23. Jubayer C, **Romanic D**, Hangan H. 2019. Phase 3; Part 1: Reference wind speed for calculating pressure coefficients in tornadic flows. WindEEE Research Institute, Western University, London, On, Canada.

R22. Jubayer C, Hangan H, **Romanic D**. 2018. Wind loads research. Part 4, Phase 2: Pressure coefficients in ASCE format. WindEEE Research Institute, Western University, London, On, Canada.

R21. **Romanic D**. 2018. WindEEE Dome—ABL and Orography Winds. WindEEE Research Institute, Western University, London, On, Canada.

R20. **Romanic D**. 2018. WindEEE Dome—Tornadoes. WindEEE Research Institute, Western University, London, On, Canada.

R19. **Romanic D**. 2018. WindEEE Dome—Downbursts. WindEEE Research Institute, Western University, London, On, Canada.

R18. **Romanic D**, Chowdhury J, Hangan H. 2018. Wind loads research. Parts 2 & 3, Phase 2: Application of quasi-steady theory on experimentally produced tornadic flows. Constructing time series of  $C_p$ 's. WindEEE Research Institute, Western University, London, On, Canada.

R17. **Romanic D**, Jubayer C, Hangan H. 2018. Wind loads research. Part 2, Phase 1: Measuring tornadic flows. WindEEE Research Institute, Western University, London, On, Canada.

R16. Refan M, **Romanic D**, Hangan H. 2017. Tornado loss prevention. WindEEE Research Institute, Western University, London, On, Canada.

R15. **Romanic D**, 2017. Wind impact studies for the Kansas Project Phase II: Wind loads. WindEEE Research Institute, Western University, London, On, Canada.

R14. **Romanic D**, 2016. Wind impact studies for the Kansas Project Phase II: Wind resource assessment. WindEEE Research Institute, Western University, London, On, Canada.

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R10. Milić-Petrović B, **Romanic D**. 2012. Evaluation of meteorological risks of severe weather for the city of Novi Sad, Serbia. Republic Hydrometeorological Service of Serbia, Belgrade, Serbia.

- R9. **Romanić D** and others. 2011. Wind resource assessment—measurement. South East Europe Consultants Ltd., Belgrade, Serbia.
- R8. **Romanić D** and others. 2011. Wind resource assessment—Žabljak. South East Europe Consultants Ltd., Belgrade, Serbia.
- R7. **Romanić D** and others. 2010. Wind resource assessment—Crni Vrh. South East Europe Consultants Ltd., Belgrade, Serbia.
- R6. **Romanić D**. 2009. Feasibility study of the Power Tower patent and a small wind turbine concept patent. South East Europe Consultants Ltd., Belgrade, Serbia.
- R5. **Romanić D** and others 2010. Wind resource assessment—Gacko. South East Europe Consultants Ltd., Belgrade, Serbia.
- R4. **Romanić D** and others. 2009. Wind resource assessment for the „La Piccolina: wind farm and analysis of wind, snow and ice loads on the 35kV transmission power line Žagajica—TS Vršac 1. South East Europe Consultants Ltd., Belgrade, Serbia.
- R3. **Romanić D** and others. 2009. Wind resource assessment—Šušare. South East Europe Consultants Ltd., Belgrade, Serbia.
- R2. **Romanić D** and others. 2009. Wind resource assessment—Kruščica. South East Europe Consultants Ltd., Belgrade, Serbia.
- R1. **Romanić D** and others. 2009. Wind resource assessment—Vračev Gaj. South East Europe Consultants Ltd., Belgrade, Serbia.

*Research posters (P)*

- P9. Britton K, **Romanic D**. 2023. User-friendly interface of analytical models of downburst outflows. Undergraduate and graduate research presentation events. Department of Atmospheric and Oceanic Sciences, McGill University, Montreal, Qc, Canada
- P8. **Romanic D**, Bouchard R. 2022. A Monte Carlo model of tornado hazard to wind turbines in Germany. Undergraduate and graduate research presentation events. Department of Atmospheric and Oceanic Sciences, McGill University, Montreal, Qc, Canada
- P7. **Romanic D**, Refan M, Wu C-H, Michel G. 2016. Oklahoma tornado loss model. C4 CatIQ Conference. Toronto, On, Canada.
- P6. Parvu D, **Romanic D**, Kamran S, Hangan H. 2014. WindEEE Dome. Global Cities Summit, 15 May, 2014. Toronto, On, Canada.
- P5. Parvu D, **Romanic D**, Kamran S, Hangan H. 2014. WindEEE Engineering. Global Cities Summit, 15 May, 2014. Toronto, On, Canada.

- P4. Parvu D, **Romanic D**, Kamran S, Hangan H. 2014. WindEEE Energy. Global Cities Summit, 15 May, 2014. Toronto, On, Canada.
- P3. Parvu D, **Romanic D**, Kamran S, Hangan H. 2014. WindEEE Environment. Global Cities Summit, 15 May, 2014. Toronto, On, Canada.
- P2. Rasouli A, **Romanic D**, Hangan H. Jubayer C. 2014. Sustainable analysis for an urban block: wind energy production. 6. International Symposium on Computational Wind Engineering, 8–12 June, 2014. Hamburg, Germany.
- P1. **Romanic D**, Rasouli A, Hangan H. 2013. WindEEE and new aspects in urban wind resource assessment. CanWEA 2013 Annual Conference and Exhibition, 7–9 October, 2013. Toronto, On, Canada.