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Curriculum Vitae

Yuliya Dzyuban

ydzyuban@pratt.edu

yuliya.dzyuban@fulbrightmail.org

<https://orcid.org/0000-0003-3688-420X>

I. ACADEMIC BACKGROUND

Doctor of Philosophy in Sustainability - School of Sustainability, Arizona State University, Tempe, AZ.
Awarded: December 2019. Committee: Charles L. Redman (chair), David M. Hondula, Paul J. Coseo

Dissertation Title: "Relationship between design and thermal comfort in hot and dry climate."

Master of Science in Sustainability in the Urban Environment - The Bernard and Anne Spitzer School of Architecture, The City College of the City University of New York, New York, NY.

Awarded: February 2015. Advisor: Jorge E. Gonzalez

Thesis Title: "An Analysis of Resilient Strategies for Coastal Communities: The Case of Staten Island's Eastern Shore."

Professional Diploma in Architecture (Summa Cum Laude) - Department of Architecture, University of Nicosia, Nicosia, Cyprus. Awarded: June 2012

Bachelor of Architecture (with Honors) - Department of Architecture, Poltava National Technical Yuriy Kondratyuk University, Poltava, Ukraine. Awarded: January 2010

II. RESEARCH ACTIVITIES

PROFESSIONAL APPOINTMENTS

Assistant Professor, Sustainable Environmental Systems

Graduate Center for Planning and the Environment, Pratt Institute, New York, 01/2024 -

Postdoctoral Research Fellow for Cooling Singapore Project

College of Integrative Studies, Singapore Management University, Singapore, 02/2020 – 01/2024

Ph.D. Research Fellow for UREx SRN

Urban Resilience to Extremes Sustainability Research Network (UREx SRN), Arizona State University, Tempe, AZ, 08/2016 – 12/2019

Research Fellow for RULA IRES

Resilient Urban Latin America (RULA) International Research Experience for Students (IRES) Program, Arizona State University, Hermosillo, Mexico, 05/2019 – 07/2019

Research Intern for Building Performance Lab

Institute for Urban Systems, City University of New York, New York, NY, 04/2014 – 12/2014

RESEARCH INTERESTS

Urban design

Heat perceptions

Environmental justice

Resilience to weather extremes

Outdoor thermal comfort

Sustainable mobility

ACADEMIC FELLOWSHIPS SCHOLARSHIPS, AND AWARDS (totaling \$267,763 plus three years of Research Fellowship with UREx SRN)

Research Staff Excellence Award - S\$2000, Singapore Management University, Singapore, 2022

Graduate College Completion Fellowship - \$8,500 plus tuition coverage, Arizona State University, Tempe, AZ, 2019

Graduate Research Grant - \$2,000, UREx SRN, 2019

Graduate and Professional Student Association Out-of-State Career Development Grant - \$550, Arizona State University, Tempe, AZ, 2019

Graduate Fellow Award to conduct research in Hermosillo, Mexico - \$6,000 plus travel and lodging, UREx SRN, Tempe, AZ, 2019

Second prize at CAP LTER Poster Symposium - \$250, Arizona State University, 2019

Graduate Research Grant - \$4,000, UREx SRN, Tempe, AZ, 2018-2019

Planning Scholarship - \$2,500, Advancing Women in Transportation Metropolitan Phoenix Chapter and Arizona Transit Association, Phoenix, AZ, 2018

Second prize at Reimagining Transportation Contest - \$2,000, Friends of Transit 15th and 16th Annual Conference, Phoenix, AZ, 2017-2018

Graduate and Professional Student Association Individual Travel Grant - \$275, Arizona State University, Tempe, AZ, 2017

Ray Anderson Memorial Scholarship - \$1,000, School of Sustainability, Arizona State University, Tempe, AZ, 2017

Martinson Sustainability Solutions Research Grant - \$500, School of Sustainability, Arizona State University, Tempe, AZ, 2017

First prize at Project-Wide Poster Session, UREx SRN 2nd Annual All Hands Meeting, New York, NY, 2017

Fulbright Graduate Student Award - \$232,788, Embassy of the United States of America in Ukraine and Fulbright Program, Kyiv, Ukraine, 2013-2016

Award for Great Academic Performance for year 2011-2012 during studying in University of Nicosia, Scientific and Technical Chamber of Cyprus, Nicosia, Cyprus, 2012

State Scholarship for pursuing Bachelor of Architecture - \$6,000 plus tuition coverage, Poltava National Technical Yuriy Kondratyuk University, Poltava, Ukraine, 2005-2010

PUBLICATIONS

Google Scholar: <https://scholar.google.com/citations?hl=en&user=mHRpRAUAAAAJ>

Peer-Reviewed Journal Manuscripts

Banerjee, S., Ching, G. N.Y., Yik, S.K., **Dzyuban, Y.**, Crank, P.J., Pek, R.X.Y., Chow, W.T.L. (2022). Analyzing impacts of urban morphological variables and density on outdoor microclimate for tropical cities: A review and a framework proposal for future research directions. *Building and Environment*, 225(October), 109646. <https://doi.org/10.1016/j.buildenv.2022.109646>

Dzyuban Y., Ching, G. N.Y., Yik, S.K., Tan, A.J., Crank, P.J., Banerjee, S., Pek, R.X.Y., Chow, W.T.L. (2022). Sentiment Analysis of Weather-Related Tweets from Cities within Hot Climates. *Weather Climate and Society*. 14(4), 1133-1145. <https://doi.org/10.1175/WCAS-D-21-0159.1>

Dzyuban Y., Ching, G. N.Y., Yik, S.K., Tan, A.J., Banerjee, S., Crank, P.J., Chow, W.T.L. (2022). Outdoor thermal comfort research in transient conditions: a narrative literature review. *Landscape and Urban Planning*, 226(May), 104496 <https://doi.org/10.1016/j.landurbplan.2022.104496>

Dzyuban, Y., Hondula, D. M., Vanos, J. K., Middel, A., Coseo, P. J., Kuras, E. R., & Redman, C. L. (2022). Evidence of alliesthesia during a neighborhood thermal walk in a hot and dry city. *Science of the Total Environment*, 834. <https://doi.org/10.1016/j.scitotenv.2022.155294>

Lees A.M., Vecellio D.J, **Dzyuban Y.** (2021). A news update from the students and new professionals group. *International Journal of Biometeorology*. <https://doi.org/10.1007/s00484-021-02203-z>

Dzyuban, Y., Hondula, D. M., Coseo, P. J., & Redman, C. L. (2021). Public transit infrastructure and heat perceptions in hot and dry climates. *International Journal of Biometeorology*. <https://doi.org/10.1007/s00484-021-02074-4>

Anderson, V., Leung, A. C. W., Mehdipoor, H., Jänicke, B., Milo, D., Oliveira, A., Manavvi, S., Kabano, P., **Dzyuban, Y.,** Aguilar, R., & Agan, P. N. (2021). Technological opportunities for sensing of the health effects of weather and climate change: a state-of-the-art-review. *International Journal of Biometeorology*. <https://doi.org/10.1007/s00484-020-02063-z>

Data publications

Dzyuban, Y., D. Hondula, J. Vanos, A. Middel, P. Coseo, and C. Redman. (2022). Evidence of alliesthesia during a neighborhood thermal walk in a hot and dry city (Phoenix, Arizona) ver 1. Environmental Data Initiative. <https://doi.org/10.6073/pasta/f969758e0aa62163f674464d68acdaaf>

Dzyuban, Y. (2020). Public transit infrastructure and heat perceptions in hot and dry climates (June-July, 2018; Phoenix, Arizona, USA) ver 1. Environmental Data Initiative. <https://doi.org/10.6073/pasta/340aa9e1326acaa5031b6f5a55a1f29e>

Gray literature publications

Dzyuban, Y. (2020). Relationship between humidity and physiology in warm and humid conditions – A literature review. *Research Collection School of Social Sciences*. Paper 3237. https://ink.library.smu.edu.sg/sooss_research/3237

CONFERENCE PRESENTATIONS

Dzyuban Y., Banerjee S., Ching, G. N.Y., Yik, S.K., Pek, R.X.Y., Chow, W.T.L. Assessment of the relationship between the urban form and thermal comfort in a tropical city. APRU Multi-Hazards Symposium 2023, Singapore, November 2023

Dzyuban Y., Banerjee S., Ching, G. N.Y., Yik, S.K., Pek, R.X.Y., Chow, W.T.L. Thermal walk for outdoor thermal comfort evaluation of urban spaces in an Asian city. 11th International Conference on Urban Climate, Sydney, Australia, September 2023

Dzyuban Y., Banerjee S., Ching, G. N.Y., Yik, S.K., Pek, R.X.Y., Chow, W.T.L. Thermal walk for outdoor thermal comfort evaluation of urban spaces in an Asian city. International Congress of Biometeorology 2023, Tempe, AZ, May 2023

Dzyuban Y., Redman C., Hondula D., Coseo P., Middel A., Vanos J. Exploring pedestrian thermal comfort in hot climates. The European Geoscience Union General Assembly, Online, May 2020

Dzyuban Y., Hondula D., Messerschmidt M., Vanos J., Middel A., Coseo P. Heat Walk: Perception of Thermal Comfort in Relation to Street Infrastructure. American Meteorological Society 100th Meeting, Boston, MA, January 2020

Dzyuban Y. Heat Adaptation Research Panel. Heat, Air, Water Workshop. Arizona State University, Tempe, AZ, February 2019

Dzyuban Y, Hondula DM, Middel A. Analyzing public transit-based heat exposure, perception, and behaviors to enhance climate adaptation and mitigation strategies in the Southwest United States. American Meteorological Society 99th Meeting, Phoenix, AZ, January 2019

Dzyuban Y, Hondula DM, Redman C, Middel A. Analyzing transit-based heat exposure and behaviors to enhance urban climate adaptation and mitigation strategies in the Southwest USA. 11th International Forum on Urbanism (IFOU) 2018 Reframing Urban Resilience Implementation: Aligning Sustainability and Resilience, The School of Architecture of UIC Barcelona and UNHabitat, Barcelona, Spain, December 2018

Dzyuban Y. Public transit and heat. Cooler Phoenix Research Symposium. Arizona State University and the City of Phoenix, Phoenix, AZ, September 2017

CONFERENCES AND SESSIONS ORGANIZED

Organized and moderated the First Virtual Asia Biometeorology Colloquium 2023, January 2023

Co-organized (on a leadership team) the 1st virtual and 22nd International Congress of Biometeorology, Connecting Our World: Biometeorology 2021, September 2021

Session chair, Biomet – Asia, Virtual International Congress of Biometeorology, Connecting Our World: Biometeorology 2021, September 2021

Poster session chair, Human - Asia I and II: Poster Review and Discussion, Virtual International Congress of Biometeorology, Connecting Our World: Biometeorology 2021, September 2021

Co-organized and moderated a session on The MICROtransit: Building Community as You Go. Arizona's 31st Annual Transit Conference, Tucson, AZ, April 2018

INVITED TALKS

“Designing cooler cities. Assessing thermal environment and perception for improved livability.” Presented to the Yale School of the Environment, Yale, virtual, March 2022

“Assessing the impact of urban forestry for cooler and livable cities.” Presented to the Department of Forest Resources Management, University of British Columbia, virtual, March 2023

POSTERS

Dzyuban, Y., Hondula, D. M., Vanos, J. K., Middel, A., Coseo, P. J., Kuras, E. R., & Redman, C. L. Evidence of alliesthesia during a neighborhood thermal walk in a hot and dry city. International Association for Urban Climate Virtual Poster Conference, August 2022

Crank, P.J., Ching, G. N.Y., **Dzyuban Y.**, Banerjee S., Yik, S.K., Pek, R.X.Y., Chow, W.T.L. Transforming the City into a Garden: Simulating the cooling effects of vegetation in tropical Singapore on ENVI-met. International Association for Urban Climate Virtual Poster Conference, August 2022

Yik, S.K., Ching, G. N.Y., Pek, R.X.Y., Crank, P.J., **Dzyuban Y.**, Banerjee S., Chow, W.T.L. Shady Results: The Impact of Solar Radiation Shields on Measuring Urban Heat Parameters in Sultry Climates. International Association for Urban Climate Virtual Poster Conference, August 2022

Ching, G. N.Y., Yik, S.K., Tan A. J., **Dzyuban Y.**, Crank, P.J., Banerjee S., Chow, W.T.L. Sentiment Analysis of Weather-related Tweets in Hot Climates. Virtual International Congress of Biometeorology, Connecting Our World: Biometeorology 2021, September 2021

Dzyuban Y, Messerschmidt M, Fischer H, Ellsworth A, Solis P, Vanos J, Middel A, Hondula DM. Mapping thermal comfort in Edison Eastlake Neighborhood with citizen scientists. Central Arizona–Phoenix Long-Term Ecological Research Symposium, Scottsdale, AZ, January 2019

Dzyuban Y, Hondula DM, Redman C, Middel A. Analyzing transit-based heat exposure and behaviors to enhance urban climate adaptation and mitigation strategies in the southwest USA. Central Arizona–Phoenix Long-Term Ecological Research Symposium, Scottsdale, AZ, January 2019

Dzyuban Y. The relationship of urban design and microclimate in influencing behavior to mitigate heat exposure on public transit stops in Phoenix Metro Area. Recommendations for Tempe Streetcar Project. Urban Resilience to Extremes Sustainability Research Network (UREX SRN) All-Hands Meeting, New York, NY, March 2017

Dzyuban Y, Guardaro M, Hobbins RJ, Jones JL and Stein Z. Healthy fire station complex. Institute for Social Science Research Poster Competition, Arizona State University, November 2016

MEDIA

Singapore Management University Office of Research: “Mitigating heat impacts for cooler cities”, May 2023, <https://research.smu.edu.sg/news/2023/feb/09/mitigating-heat-impacts-cooler-cities>

The Straits Times Singapore: “LTA, NParks plant a cool idea at bus stops islandwide”, September 2022, <https://www.straitstimes.com/singapore/transport/lta-nparks-plant-a-cool-idea-at-bus-stops-islandwide>

The New York Times: “How Hot and Humid Singapore Is Trying to Cool Itself Down”, August 2022, <https://www.nytimes.com/2022/08/01/world/asia/singapore-cooling-heat-climate.html>

The Straits Times Singapore: “Is weather app accurate? SMU researchers eye better way to measure urban heat”, July 2022, <https://www.straitstimes.com/singapore/environment/is-weather-app-accurate-smu-researchers-eye-better-way-to-measure-urban-heat?close=true>

Future cities episode 68: “Heat Risk”, August 2022, <https://www.stitcher.com/show/future-cities/episode/heat-risk-205402184>

Tomorrow City - S1E2: “Sun”. August 2021. <https://www.channelnewsasia.com/watch/tomorrow-city/sun-2129581>

Future cities episode 21: “Resilience to heat and floods in Hermosillo, Mexico”, August 2019. <https://sustainability-innovation.asu.edu/urbanresilience/news/archive/future-cities-episode-21-resilience-to-heat-and-floods-in-hermosillo-mexico>

Future cities episode 17: “Perceptions of Heat and thermal comfort”, February 2019. <https://sustainability-innovation.asu.edu/urbanresilience/news/archive/future-cities-episode-17-perceptions-of-heat-and-thermal-comfort>

ABC 15 Morning News, “Tracking heat, cooling cities down”, October 2018

III. TEACHING, SUPERVISION, AND MENTORSHIP

COURSES TAUGHT

Assistant Professor, Green Infrastructure Design/Build Studio, SES Pratt Institute, Spring 2024
Assistant Professor, Demo Professional Competence, SES Pratt Institute, Spring 2024
Adjunct Faculty, 200-level “Climate Change: Local to Global Solutions” at Singapore Management University, Fall 2023
Invited Lecturer, “Urban Resilience for Redesigning Deltas”, PhD students at the Department of Urbanism, Delft, Fall 2023
Invited Lecturer, “Assessing the Relationship Between Urban Morphology and Thermal Comfort”, MS students at the Department of Urbanism, Delft, Fall 2023
Invited Lecturer, “Ecosystem Services for Urban and Peri-Urban Climate Resilience”, Urban Forestry Capstone students, University of British Columbia, Fall 2023
Invited Lecturer, “Scientific poster development”, Sustainability Research Design and Practice undergraduate class, Arizona State University, Spring 2020, 2021
Teaching Assistant, Landscape Architecture III Design Studio, Arizona State University School of Design, Tempe, AZ, Fall 2017, 2018, 2019

STUDENTS SUPERVISED

Completed graduate capstone advisees

Aditi Galande, M.Sc Sustainable Environmental Systems (SES), Pratt Institute, Spring 2024
 Nicole Saul Nigri, M.Sc SES, Pratt Institute, Spring 2024
 Raísa Lin Garden-Lucerna, M.Sc SES, Pratt Institute, Spring 2024
 Radhika Darshakbhai, M.Sc SES, Pratt Institute, Spring 2024

Completed undergraduate thesis advisee (as committee member)

Roxana Sánchez Servin de la Mora, Environmental Science Engineering, Sonora Institute of Technology, Spring 2020

Completed undergraduate summer researchers supervised

Danielle Prasad, BA in Sustainability, Arizona State University, Summer 2021
 Claire Kredens, BSLAS in Earth, Society, and Environmental Sustainability and Geography (Human Concentration) University of Illinois at Urbana-Champaign, Summer 2018
 Makenna Welsch, BA in Sustainability, Arizona State University, Summer 2017

MENTORSHIP

Mentor, U.S. Embassy Singapore-Institute of Technological Education Alumni Mentoring Program 2021
Job SHARE Mentor, Arizona State University Mentor Network, 2020-present

IV. PUBLIC SERVICE

GUEST EDITOR

International Journal of Biometeorology, Special Issue for Students and New Professionals of the International Society of Biometeorology, 2024

MANUSCRIPT REVIEWER

Science of the Total Environment	Urban Climate
International Journal of Biometeorology	Building and Environment

Meteorological Applications	Weather, Climate, and Society
Sustainable Cities and Society	PeerJ — the Journal of Life and Environmental Sciences
Nature Communications	

BOOK CHAPTER REVIEWER

Resilient Urban Futures volume, Springer Urban Book Series, 2020

OTHER SERVICE ACTIVITIES

Vice-President, International Society of Biometeorology, 2023--

Communications Director, Students and New Professionals group of the International Society of Biometeorology, 2020-2023

Councilor for the Asia Region, International Society of Biometeorology, 2020-2023

Summer Graduate Grant panel reviewer, Urban Resilience to Extremes Research Network, 2020

Sustainability Challenge Judge, Changemaker Community Action Grant, Arizona State University, Tempe, AZ, 2019

Global Classroom Guide, Bronx High School, New York, NY, 2014

Fulbright Awards Dinner Ambassador, One to World Annual Fundraising Dinner, New York, NY, 2014

V. PROFESSIONAL PRACTICE

EMPLOYMENT

Junior Architect, Kliment Halsband Architects, New York, NY, 01/2015-04/2016

Architecture Intern, Gruzen Samton IBI Group, New York, NY, 07/2014-09/2014

SCHOLARLY/PROFESSIONAL MEMBERSHIPS

Nature Based Solutions for Urban Resilience in the Anthropocene (NATURA)

Urban Resilience to Extremes Sustainability Research Network (UREx SRN)

International Association for Urban Climate (IAUC)

Arizona State University Mentor Network

International Society of Biometeorology

American Meteorological Society

European Geosciences Union

Fulbright Association

PROFESSIONAL DEVELOPMENT

Workshop Participant, 3rd international Workshop for Students and New Professionals, International Society of Biometeorology, Enschede, The Netherlands, 2019

Competition Participant, "Make for the Planet." Earth Optimism Summit 2017, Presented by Smithsonian Conservation Commons, Washington D.C., 2017

Seminar Participant, Fulbright "From Lab to Market." U.S. Department of State's Bureau of Educational and Cultural Affairs, Seattle, WA, 2014

Conference Participant, "Human Security in the Information Age." U.S. Naval Academy Foreign Affairs Conference, Annapolis, MD, 2014

Student Scholar, ERASMUS Workshop. European Union Intensive Programme, "Demographic Change and European Cities: A Focus on Immigration," Vienna University of Technology, Vienna, Austria, 2011

VI. RELATED PROFESSIONAL SKILLS

Research skills: R Studio, SPSS, MAXQDA, ArcGIS, ENVI-met, RayMan, EnergyPlus, Adobe Creative Suite, Autodesk Revit, Rhinoceros 3D, Grasshopper 3D, Autodesk AutoCAD, Microsoft Office

Teaching skills: Blackboard, Canvas, eLearn

Languages: bilingual in Ukrainian and Russian, excellent English, proficient Spanish, basic Greek, and German