# Oleksii Dubovyk

Ph.D. Student in Ecological Sciences

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### Education

### Degrees

Aug 2022 – *Doctor of Philosophy* in Ecological Sciences, *Old Dominion University*, Norfolk, present Virginia, USA, *GPA 3.87* 

Coursework included Mathematical Statistics, Introduction to Data Science and Analytics, Modern Statistical Methods for Big Data Analytics

Aug 2020 – *Master of Science* in Biology, *Old Dominion University*, Norfolk, Virginia, USA, present *GPA 4.00* 

Coursework included Modeling and Simulation in the Life Sciences, GIS in the Life Sciences, Theory of Statistics

Sep 2019 – *Master's degree* in Biology, *Ivan Franko National University of Lviv*, Lviv, Ukraine, Dec 2022 *GPA 4.00* (With Honors)

Qualification Project: Distribution of breeding birds' diversity and rare species along an urban gradient in parks and forests of Lviv Specialization: Zoology

Sep 2015 – **Bachelor's degree in Biology**, Ivan Franko National University of Lviv, Lviv, Jun 2019 Ukraine, GPA 3.69 (With Honors)

Specialization: Teacher of Biology and Chemistry. Laboratory engineer in the field of biology

#### **Training**

**Signal Extraction in Kaleidoscope Lite**, *Wildlife Acoustics*, Maynard, Massachusetts, USA (online), 2024

Data Science Bootcamp, Old Dominion University, Norfolk, Virginia, USA, 2024 Vector Solutions, Old Dominion University, Norfolk, Virginia, USA (online)

- Sexual Harassment Prevention Training (2024)
- 15-Passenger Van Safety (2023)

**Collaborative Institutional Training Initiative**, *Old Dominion University*, Norfolk, Virginia, USA (online)

- O Reducing Pain and Distress in Laboratory Mice and Rats (2023)
- O Wildlife Research (2022)
- OSHA Bloodborne Pathogens (2022)
- NIH Recombinant DNA (rDNA) Guidelines (2022)
- Investigators, Staff and Students (2022)
- Conflicts of Interest (2022)
- Training for Investigators, Staff and Students Handling Biohazards (2020)
- Biomedical Responsible Conduct of Research (2020)

Linkeln Learning, Old Dominion University, Norfolk, Virginia, USA (online)

- O Raspberry Pi Essential Training (2022)
- Building Data Apps with R and Shiny (2022)
- Code Clinic: R (2022)
- OR Essential Training Part 2: Modeling Data (2022)
- SQL Essential Training (2022)

**Faculty and Instructor Sexual Harassment Training**, *Old Dominion University*, Norfolk, Virginia, USA, *2023* 

**Graduate Teaching Assistant Instructor's Institute**, *Old Dominion University*, Norfolk, Virginia, USA, 2022

Workshop on Quantitative Methods for Population Dynamics in R, French National Centre for Scientific Research, Paris, France (online), 2022

**Python 3 Programming Specialization**, *University of Michigan (via Coursera)*, Norfolk, VA, USA (online), *2020* 

**Geographic Information Systems and Protected Areas Workshop**, *SCGIS Ukraine*, Kharkiv, Ukraine, *2020* 

**Introduction to Calculus**, *University of Sidney (via Coursera)*, Lviv, Ukraine (online), 2020

**General Principles of Statistics**, *Bioinformatics Institute*, Saint Petersburg, Russian Federation (online), 2018

**Data Analysis in R**, *Bioinformatics Institute*, Saint Petersburg, Russian Federation (online), 2018

BirdID, Nord University, Lviv, Ukraine, 2017

Exam on sight and sound identification of birds (national level – Ukraine)

### Ph.D. Dissertation

pending approval

Title Role of functional traits in assembly of avian communities along an urban gradient Committee Dr. Eric L. Walters (advisor), Dr. Erik Yando, Dr. Ross Gore, Dr. Amanda Rodewald, Dr. Brian McGill

Master Thesis

2023

Title The spatial and temporal changes of functionally rare landbird species in North America relative to urbanized areas

Committee Dr. Eric L. Walters (advisor), Dr. Wesley M. Hochachka, Dr. Kent E. Carpenter

### Professional Experience

#### Vocational

- Aug 2022 Graduate Teaching Assistant, Department of Biological Sciences, Old Dominion present University, Norfolk, VA, USA
   Preparing lab materials, teaching pre-lab lectures, contributing to designing lab-based classes.
- May 2023 Graduate Research Assistant, Tick Research Group, Department of Biological
  - Aug 2023 Sciences, Old Dominion University, Norfolk, VA, USA

    Modeling of spatio-temporal population dynamics in the American Dog Tick
- Aug 2019 **Biologist**, "Roztochia" Nature Reserve, Ivano-Frankove, Lviv region, Ukraine, (part-Jul 2020 time)
  - monitoring of populations of vertebrates
  - o use of trail cameras for wildlife monitoring
  - May 2020 **Field Ornithologist**, Zoological Museum, Ivan Franko National University of Lviv, Lviv, Ukraine

A part of the Polish-Ukrainian effort on evaluation of the population of the Great Snipe *Gallinago media* 

- Jun 2018 Researcher (volunteer), West-Ukrainian Ornithological Society, Lviv, Ukraine
  - Feb 2019  $\, \odot \,$  field data collection on bird migration over Polonyna Borzhava mountain ridge (Ukrainian Carpathians)
    - o data analysis and writing research reports
    - o prediction of bird mortality due to collisions with a proposed wind farm
- Aug 2016, **Bird Banding Assistant**, *West-Ukrainian Ornithological Station*, Cholginy Ornitho-Aug 2015, logical Reserve, Lviv region, Ukraine Aug 2014

### Miscellaneous

- Dec 2022 Translator, Christian Medical Association, USA/Ukraine
- May 2023 Mediation between hospitals in Ukraine and charity organizations in the U.S. willing to provide medical training to nurses treating war victims in Ukraine
- Jun 2022 **Information Table Volunteer**, *Ukrainian Canadian Congress*, Toronto, Canada Aug 2022 Humanitarian and informational assistance to people fleeing Russian military invasion of Ukraine

### Teaching and Mentoring

- Jan 2023 **BIOL336 Vertebrate Zoology Lab Graduate Teaching Assistant**, *Department* present of *Biological Sciences*, *Old Dominion University*, Norfolk, VA, USA
  - o preparing vertebrate specimens to teach identification skills for a diverse audience of junior and senior non-traditional undergraduate students
  - o designing pre-lab lectures on key identification characteristics of vertebrates
  - o preparing, proctoring, and grading slides- and specimen-based quizzes and exams
  - suggested and implemented changes to syllabus and independent development of lab policies

- Jun 2023 Biology Mentor, REYES Mentorship Program, University of California, Berkeley, Aug 2023 Berkeley, CA, USA
  - o mentoring three high school students from around the world in their independent research on topics in behavioral ecology
- Aug 2022 BIOL124N General Biology for Non-Majors II Lab Graduate Teaching As-Dec 2022 sistant, Department of Biological Sciences, Old Dominion University, Norfolk, VA,
  - o delivery of topics in biology for non-biological audience of freshmen undergraduate
  - o mentoring students who wished to change their major to Biology

### Skills

	Level	Skill	Years	Comment
Languages		English	7	TOEFL iBT (2019)
		Ukrainian		Native
		Russian		Native (prefer not to speak)
		Polish	3	Sufficient for understanding
Programming		R	7	With extensive usage of tidyverse
Languages		Python	4	
		Bash	4	
		LATEX	4	
		SQL	3	
		NetLogo	4	
		JavaScript	6	Limited usage within Google Earth Engine
	•	Fortran	<1	Very basic knowledge
OS		Windows	15	Daily use
		Linux	4	Occasional use in cloud computing and PC
		Raspberry Pi OS	3	Superficial experience with electronics
Software		ArcGIS	3	
		QGIS	5	

### Methods

Statistical I am well familiar with basic statistical approaches including simple and multivariate Analysis linear and polynomial regression (including testing for assumptions of linear regression), analysis of variance, generalized linear models, generalized additive models, mixed-effect models. I prefer permutational approach whenever it is feasible over conventional parametric paradigms. Fields of clustering algorithms (i.e., K-nearest neighbors) and dimension reduction (i.e., principal component analysis) are also known to me, while I am eager to improve my knowledge of Markov chains and Bayesian approaches.

Data Handling large datasets (i.e., millions of observations and more) is common in my Management line of work, especially when considering big citizen-science datasets on biological diversity. Yet, I am still to improve my skills in handling data files that are larger than a typical random-access memory volume without dataset-specific software (e.g., R package auk for eBird).

Agent-Based

My experience with agent-based modeling is somewhat limited to writing simple mod-Modeling els in R describing collision risk of directional bird movement in a three-dimensional space containing a wind turbine of a specified geometry; and modeling resource consumption of a biological community that consists of species with different abiotic requirements. Generally, I am capable of writing a spatially explicit model appropriate for a specific biological scenario within a reasonable period of time.

Field My identification skills are not my primary so I usually require several days to recall Ornithology identification features of bird species in areas I am familiar with. Yet, I have months of fieldwork behind, and typical sampling using binoculars and/or photo camera is not novel to me. Besides, I have considerable experience in handling and extracting live birds from mist nets and a limited record of bird banding.

Biological I have experience in using motion-activated cameras to detect the presence of large Surveillance mammals (e.g., badger, deer) within an area of interest, as well as in experimental work detecting artificial nest depredation events. I also have a limited experience with computation related to capture-recapture models and species geographic distribution models (e.g., Wallace).

Spatial I am comfortable with extracting large landcover datasets using cloud computing platforms (e.g., Google Earth Engine) and open-source data (e.g., OpenStreetMaps) followed by post-processing in ArcGIS and/or QGIS.

### **Publications**

- [8] Dubovyk, O and Walters, EL. (2024). The influence of time-of-day on estimates of taxonomic versus functional diversity in avian communities. Bird Study 71 (1):98-102.
- Shydlovskyy, I, Dubovyk, O, Hrynyuk, P, Zahorodnyi, I, and Matejchyk, V. (2021). Avifauna of meadow ecosystems in borderland areas of Lviv and Volyn Oblasts. Geo&Bio 20. In Ukrainian:117-134.
- [6] Zahorodnyi, I, Dubovyk, O, Komarnytskyi, I, and Dykyy, I. (2021). Diet of Long-eared Owl and Common Kestrel in an urban landscape (Ukraine). Ornis Hungarica 29:108-119.
- Bokotey, A, Dzyubenko, N, and Dubovyk, O. (2020). Representativeness and conservation of bird fauna in the Regional Landscape Park "Stilske Gorbogiria". Proceedings of the Forestry Academy of Sciences of Ukraine. In Ukrainian: 45-56.
- Dubovyk, O, Bokotey, A, Pokrytiuk, L, Bodnar, V, Strus, I, and Ruchko, O. (2020). Autumn migration of birds over Polonyna Borzhava (Ukrainian Carpathians). Zoodiversity 54:43–52.
- Dubovyk, O, Kuzyo, H, and Bokotey, A. (2020). Density variation in "rare" breeding birds in native forests and urban parks. Geo&Bio 2020:20-31.
- Dubovyk, O. (2019). Annual dynamics of bird communities in urban parks in Lviv, Ukraine: preliminary analysis of diversity and composition variability. Studia Biologica 13:79–98.
- Dubovyk, O and Stephanyshyn, R. (2019). The observation of the Eurasian Dotterel (Eudromias morinellus) in Chornogora mountain ridge (the Ukrainian Carpathians). Berkut 28:50-51.

### Conference Papers and Proceedings

- [22] DiPetto, E, <u>Dubovyk</u>, O, Wei, C, Brierly, A, Teodorescu, A, Murphy, J, and Walters, E. (2023). Hitting the sweet spot: optimizing camera trapping effort for estimating biodiversity in coastal environments. In: Graduate Research Achievement Day College of Sciences Posters. Volume 14. Norfolk, Virginia: Old Dominion University.
- [21] Shiri, M, <u>Dubovyk</u>, O, Roghaniaraghi, G, and Jayarathna, S. (2023). Meme it up: patterns of emoji usage on Twitter. In: 2023 IEEE 24th International Conference on Information Reuse and Integration for Data Science (IRI):205–210.
- [20] <u>Dubovyk</u>, O and Kuzyo, H. (2023). Lviv Bird Point Counts Scheme. In: Troglodytes: Proceedings of the West-Ukrainian Ornithological Society. Volume 11–12:80–104.
- [19] Kuzyo, H, Zhulenko, V, and <u>Dubovyk</u>, O. (2021). Lviv Bird Point Counts Scheme: preliminary results of winter avian communities classification and an improvement of methodology. In: Proceedings of the XV International Young Scientists Conference "Biology: From a Molecule Up to the Biosphere". V. N. Karazin Kharkiv National University. Kharkiv, Ukraine.
- [18] <u>Dubovyk</u>, O. (2021). Observations of wild mammals in the "Roztochya" Nature Reserve. In: Materials to the Mammal Atlas of Ukraine. Volume 20. Conservation Biology in Ukraine. In Ukrainian. Kyiv, Ukraine: I.I. Schmalhausen Institute of Zoology of the National Academy of Sciences of Ukraine:107–108.
- [17] <u>Dubovyk</u>, O. (2020). Do rare forest species tend to occur within protected areas of the Lviv agglomeration? In: Monitoring and Conservation of Biodiversity in Ukraine. Animals. Volume 16. Conservation Biology in Ukraine 2. In Ukrainian. Kyiv, Ukraine: I.I. Schmalhausen Institute of Zoology of the National Academy of Sciences of Ukraine:73–83.
- [16] <u>Dubovyk</u>, O. (2020). The Short-toed Treecreeper *Certhia brachydactyla* in Lviv (Western Ukraine). In: Troglodytes: Proceedings of the West-Ukrainian Ornithological Society. Volume 9–10. In Ukrainian. West-Ukrainian Ornithological Society. Lviv, Ukraine:109–112.
- [15] <u>Dubovyk</u>, O and Kuzyo, H. (2020). Citizen science for gathering the data on the Common Crane's *Grus grus* migration in Ukraine: the first experience. In: Troglodytes: Proceedings of the West-Ukrainian Ornithological Society. Volume 9–10. In Ukrainian. West-Ukrainian Ornithological Society. Lviv, Ukraine:113–115.
- [14] Bokotey, A, Kuzyo, H, and <u>Dubovyk</u>, O. (2019). Birds protected by the Red List of Ukraine in fauna of Lviv city. In: Materials for the 4th edition of the Red List of Ukraine: Animals. Volume 7. Conservation Biology in Ukraine 3. In Ukrainian. Kyiv, Ukraine: I.I. Schmalhausen Institute of Zoology of the National Academy of Sciences of Ukraine:34–40.
- [13] Kuzyo, H and <u>Dubovyk</u>, O. (2019). Observations of birds protected by the Red List of Ukraine and Resolution #6 of the Berne Convention in National Nature Park "Prypiat-Stokhid". In: Materials for the 4th edition of the Red List of Ukraine: Animals. Volume 7. Conservation Biology in Ukraine 3. In Ukrainian. Kyiv, Ukraine: I.I. Schmalhausen Institute of Zoology of the National Academy of Sciences of Ukraine:208–209.
- [12] Shydlovskyy, I, <u>Dubovyk</u>, O, Strus, I, and Skyrpan, M. (2019). Observations of birds protected by the Red List of Ukraine between 2009 and 2019. In: Materials for the 4th edition of the Red List of Ukraine: Animals. Volume 7. Conservation Biology in Ukraine 3. In Ukrainian. Kyiv, Ukraine: I.I. Schmalhausen Institute of Zoology of the National Academy of Sciences of Ukraine:332–343.
- [11] Dubovyk, O. (2019). Seasonal dynamics of avian community structure in urban greenery in Lviv. In: Proceedings of the XV International Scientific Conference "Youth and Progress of Biology". In Ukrainian. Ivan Franko National University of Lviv. Lviv, Ukraine:160–161.

- [10] <u>Dubovyk</u>, O. (2019). Species composition of mixed bird flocks in urban greenery of Lviv (Ukraine) during the non-breeding season. In: Materials of the Zoological Conference "Fauna on the edge of XX-XXI centuries. State and diversity of ecosystems in protected areas". Ivan Franko National University of Lviv. Lviv, Ukraine:11–13.
  - [9] <u>Dubovyk</u>, O, Bokotey, A, Pokrytiuk, L, Bodnar, V, and Ruchko, O. (2019). Autumn migration of the birds protected by the Red List of Ukraine over Polonyna Borzhava (Ukrainian Carpathians). In: Materials for the 4th edition of the Red List of Ukraine: Animals. Volume 7. Conservation Biology in Ukraine 3. In Ukrainian. Kyiv, Ukraine: I.I. Schmalhausen Institute of Zoology of the National Academy of Sciences of Ukraine:125–126.
  - [8] Dubovyk, O, Skyrpan, M, and Zahorodnyi, I. (2019). Regional Landscape Park "Stilske Gorbogiria" area that is important for breeding, wintering, and migration of rare bird species. In: Materials for the 4th edition of the Red List of Ukraine: Animals. Volume 7. Conservation Biology in Ukraine 3. In Ukrainian. Kyiv, Ukraine: I.I. Schmalhausen Institute of Zoology of the National Academy of Sciences of Ukraine:127–130.
  - [7] <u>Dubovyk</u>, O. (2018). Habitat factors associated with the variability of structure and species composition of breeding bird communities in urban greenery in Lviv. In: Proceeding of the XIII International Young Scientists Conference "Biology: From a Molecule Up to the Biosphere". In Ukrainian. Kharkiv, Ukraine: V. N. Karazin Kharkiv National University:199–201.
  - [6] <u>Dubovyk</u>, O. (2018). The importance of urban greenery in Lviv for preserving biodiversity among birds in city. In: Proceeding of the Scientific Conference "State and biodiversity of ecosystems of Shatsk National Nature Park and other protected areas". In Ukrainian. Lviv, Ukraine: Ivan Franko National University of Lviv:48–51.
  - [5] <u>Dubovyk</u>, O. (2018). Winter bird assemblages in urban greenery in Lviv, Ukraine. In: Proceeding of the XIV International Scientific Conference "Youth and Progress of Biology". Lviv, Ukraine: Ivan Franko National University of Lviv:181.
  - [4] <u>Dubovyk</u>, O. (2017). Structure of winter bird assemblages in green urban areas in Lviv. In: Troglodytes: Proceedings of the West-Ukrainian Ornithological Society. Volume 7. In Ukrainian. Lviv, Ukraine: West-Ukrainian Ornithological Society:43–51.
  - [3] <u>Dubovyk</u>, O and Kuzyo, H. (2017). Comparison of avian communities in cemeteries and urban parks of Lviv. In: Proceeding of the Scientific Conference "State and biodiversity of ecosystems of Shatsk National Nature Park and other protected areas". In Ukrainian. Lviv, Ukraine: Ivan Franko National University of Lviv:34–38.
  - [2] <u>Dubovyk</u>, O and Kuzyo, H. (2017). Point count method in studying winter bird assemblages of urbanized biotopes. In: Proceeding of the XIII International Scientific Conference "Youth and Progress of Biology". In Ukrainian. Lviv, Ukraine: Ivan Franko National University of Lviv:152.
  - [1] Kuzyo, H and <u>Dubovyk</u>, O. (2016). Avifauna of areas with different land use in Lviv suburbs. In: Proceeding of the the Scientific Conference "State and biodiversity of ecosystems of Shatsk National Nature Park and other protected areas". In Ukrainian. Lviv, Ukraine: Ivan Franko National University of Lviv:49–53.

### Fellowships and Grants

Jun 2024 **Grant in Aid of Research**, Sigma Xi, The Scientific Research Honor Society, Durham, NC, USA, \$1,000

Nest type and urbanization level as predictors of foraging decisions in potential nest predators

- May 2024 **Small Project Research Grant**, *Virginia Academy of Science*, Richmond, VA, USA, \$1,245
  - Bird song as a functional trait filtered along an urban gradient
- Apr 2024 **Graduate Summer Award Program**, *Graduate School*, *Old Dominion University*, Norfolk, VA, USA, \$3,000 Intensity and sources of nest predation along an urban gradient
- Mar 2024 **J.J. Murray Research Award**, *Virginia Society of Ornithology*, Williamsburg, VA, USA, \$500 Effects of urbanization on foraging decisions in potential avian nest predators
- Nov 2023 W. Wright Robinson ('74, '78) Endowed Graduate Research Award in Ecological, Evolutionary and Organismal Biology, Department of Biological Sciences, Old Dominion University, Norfolk, VA, USA, \$1,500

  Estimates of taxonomic and functional diversity in avian communities as a function of time-dependent vocal activity
- Aug 2023 **Conference Award**, Biology Graduate Student Organization, Old Dominion University, Norfolk, VA, USA, \$320
- Mar 2023 **Bob Ake Research Grant**, *Coastal Virginia Wildlife Observatory*, Lightfoot, VA, USA, \$500

  Nest predation as a threat to breeding birds in urban environments of coastal Virginia
- Mar 2023 Washington Biologists Field Club Research Award, Washington Biologists' Field Club, Washington, D.C., USA, \$1,667
  Intensity and sources of nest predation along an urban gradient
- Feb 2023 Larry Zeleny Research Grant, North American Bluebird Society, Bloomington, IN, USA, \$1,650

  Variation in predation risk for cavity-nesting bird species along an urban gradient
- Nov 2021 **Travel Grant**, International Student Advisory Board, Old Dominion University, Norfolk, VA, USA, \$100

  For participation in the International Congress for Conservation Biology 2021
- Mar 2021 **Small Equipment Grant**, *IdeaWild*, Fort Collins, CO, USA, \$350 The effects of urbanization on forest avian assemblage's structure
- Aug 2020 **Fulbright Graduate Student Program**, *U.S. Department of State*, New York, NY, May 2022 USA, \$38,517
  - Jun 2019 **Small Field Biology Grant**, *Dovkolabotanika*, Kyiv, Ukraine, UAH 10,500 Factors affecting the structure of forest birds' assemblages

### Awards and Honors

- Jun 2024 Virginia S. Bagley Endowed Scholarship, Department of Biological Sciences, Old Dominion University, Norfolk, VA, USA, \$9,468
- May 2024 Woolcott Best Student Presentation Award in Natural History and Biodiversity, Virginia Academy of Science, Richmond, VA, USA
- Feb 2024 **Student Membership Award**, *Society for the Study of Evolution*, St. Louis, MO, USA

- Jan 2022 Student Membership Award, American Ornithological Society, Chicago, IL, USA
- Nov 2021 **3MT (Three-minute thesis) competition**, *Old Dominion University*, Norfolk, VA, USA, Finalist
  - Rare, distinct, not yet extinct: unique birds and where to protect them
- Nov 2021 **Graduate Map Competition**, 2021 GIS Day at Old Dominion University, Norfolk, VA, USA, 2nd prize

  Mapping the functional rarity of birds across the continent
- Apr 2019 **Best Presentation**, International Zoological Conference "Ukrainian fauna on the verge of XX-XXI century. Status and biodiversity of ecosystems of protected areas", Lviv, Ukraine, 2nd prize

  Species composition of mixed bird flocks in urban greenery of Lviv (Ukraine) during the non-breeding season
- Sep 2019 **Best Student Oral Report in Zoology Section**, XV International Scientific Conference for Students and PhD Students "Youth and Progress of Biology", Lviv, Ukraine, 1st prize

  Seasonal dynamics of avian community structure in urban greenery in Lviv
- Nov 2018 **Best Oral Report**, XIII International Young Scientists' Conference "Biology: from a molecule up to the biosphere", Kharkiv, Ukraine, 1st prize

  Habitat factors associated with the variability of structure and species composition of breeding bird communities in urban greenery in Lviv
- Nov 2017 **Best Student Oral Report in Zoology Section**, XIII International Scientific Conference for Students and PhD Students "Youth and Progress of Biology", Lviv, Ukraine, 2nd prize

  Point count method in studying winter bird assemblages of urbanized biotopes
- Apr 2015 **Best Science Project in Zoology and Botany**, National Ukrainian Competition of Scientific Research Works of Students-Members of the Minor Academy of Sciences of Ukraine, Kyiv, Ukraine, 3rd prize

  Biotopic distribution of wintering birds in Lviv and outskirts

### Presentations, Seminars, and Meetings

Note: underscored names correspond to presenter(s)

- [27] <u>Dubovyk</u>, O. 2024. Effects of dispersal and spatial configurations in environmental conditions explain composition of ecological communities under trait-based environmental filtering. *Invited Symposium Presentation* for the 3rd Joint Congress on Evolutionary Biology (Jul 27, 2024, Montreal, Quebec, Canada).
- [26] <u>Dubovyk</u>, O., E. DiPetto, I. Peiris, and E.L. Walters. 2024. Detection of diversity of coastal avian and mammalian fauna. *Presentation for the Virginia Academy of Science Annual Meeting* 2024 (May 16, 2024, University of Mary Washington, Fredericksburg, Virginia, USA).
- [25] <u>Sanderson</u>, S., O. Dubovyk, H. Gaff, C. Wei, and M. Zettle. 2024. ADTSIM 2.0: An updated simulation of American Dog Tick population dynamics and transmission of Rocky Mountain spotted fever. *Poster Presentation for the 13th Mid-Atlantic Tick Summit* (Feb 29, 2024, Patuxent, Maryland, USA).
- [24] <u>Dubovyk</u>, O. 2024. FilterABM: an agent-based model of trait-based environmental filtering. **Presentation** for the Biology Graduate Student Organization Spring Symposium 2024 (Feb 24, 2024, Old Dominion University, Norfolk – Portsmouth, Virginia, USA).

- [23] <u>Dubovyk</u>, O. 2024. Using motion-activated cameras to reveal nest predators across the Hampton Roads. *Invited Seminar* for the Department of Biological Sciences at Old Dominion University (Jan 26, 2024, Norfolk, Virginia, USA).
- [22] <u>Dubovyk</u>, O. 2024. Foraging decisions of potential nest predators along an urban gradient across Hampton Roads (Virginia, USA). *Invited Seminar* for the Institute of Biology at University of Rzeszów (Jan 11, 2024, Rzeszów, Poland).
- [21] <u>Dubovyk</u>, O. 2023. Nest predation and predators across Hampton Roads. *Invited Talk* for Cape Henry Audubon Society (Nov 15, 2023, Norfolk, Virginia, USA).
- [20] <u>Dubovyk</u>, O. 2023. Confirming the insurance effect of rare species in ecological communities using an agent-based model. *Poster Presentation* for the Ecological Society of America Annual Meeting (Aug 8, 2023, Portland, Oregon, USA).
- [19] <u>Dubovyk</u>, O., Y. Tsai-Chen, and G. Bowers. 2023. Functional structure of avian communities in islands of urban habitats determined by regional species pool and communities of other cities. *Presentation* for the Biology Graduate Student Organization Spring Symposium 2023 (Apr 1, 2023, Old Dominion University, Norfolk, Virginia, USA).
- [18] <u>Dubovyk</u>, O., C. <u>Wei</u>, and M. Shiri. 2022. Where's Birdo: identifying bird hotspots in Hampton Roads (VA) using citizen science data. *Poster Presentation for the 24th Annual Tidewater Student Research Poster Session* (Nov 18, 2022, Christopher Newport University, Newport News, Virginia, USA).
- [17] Dubovyk, O., C. Wei, and M. Shiri. 2022. Predicting patterns of diversity and occurrence of birds across Hampton Roads. *Presentation for the Hampton Roads Datathon* (Sep 16, 2022, Civic Lab Norfolk, Norfolk, Virginia, USA).
- [16] <u>Dubovyk</u>, O. 2022. Bird species rarity as an indicator of their regional functional distinctiveness. **Poster Presentation** for the Biology Graduate Student Organization Spring Symposium 2022 (Apr 2, 2022, Old Dominion University, Norfolk, Virginia, USA).
- [15] <u>Dubovyk</u>, O. 2021. Rare, distinct, not yet extinct: unique birds and where to protect them. *Talk* for the *Three-Minute Thesis Competition* (Nov 30, 2021, Old Dominion University, Norfolk, Virginia, USA).
- [14] <u>Dubovyk</u>, O. 2021. High densities of protected areas predict a decrease in regional functional rarity among North American avian communities. *Presentation for the 30th International Congress for Conservation Biology* (Dec 13-17, 2021, Society for Conservation Biology, Kigali, Rwanda (online)).
- [13] <u>Dubovyk</u>, O. 2021. Mapping the functional rarity of birds across North America. *Poster Presentation for Graduate Map Competition at 2021 GIS Day* (Nov 19, 2021, Old Dominion University, Norfolk, Virginia, USA).
- [12] <u>Dubovyk</u>, O. 2021. Agent-based modeling of birds' collisions with wind turbines. *Invited Talk* for *Zoological Club* (May 6, 2021, Ivan Franko National University of Lviv, Lviv, Ukraine (online)).
- [11] <u>Dubovyk</u>, O. 2020. An overview of species abundance distribution models. *Invited Talk* for *Zoological Club* (Nov 26, 2020, Ivan Franko National University of Lviv, Lviv, Ukraine (online)).
- [10] <u>Dubovyk</u>, O. 2020. Patterns of diversity-sample size relationship on the example of winter bird community in the "Roztochya" Nature Reserve. *Presentation for the XVI International Scientific Conference "Youth and Progress of Biology"* (Apr 27-29, 2020, Ivan Franko National University of Lviv, Lviv, Ukraine)).
- [9] <u>Dubovyk</u>, O. 2020. Diversity levels as a function of species dominance within a community and its dependence on sample size. **Departmental Seminar** for Department of Zoology (Mar 5, 2020, Ivan Franko National University of Lviv, Lviv, Ukraine).

- [8] <u>Dubovyk</u>, O. 2019. Species composition of mixed bird flocks in urban greenery of Lviv (Ukraine) during the non-breeding season. *Presentation* for the Zoological Conference "Fauna on the edge of XX-XXI centuries. State and diversity of ecosystems in protected areas" (Sep 12-15, 2019, Shatsk National Nature Park, Lviv and Shatsk, Ukraine).
- [7] <u>Dubovyk</u>, O. 2019. Seasonal dynamics of avian community structure in urban greenery in Lviv. **Poster Presentation** for the XV International Scientific Conference "Youth and Progress of Biology" (Apr 9-10, 2019, Ivan Franko National University of Lviv, Lviv, Ukraine).
- [6] <u>Dubovyk</u>, O. 2018. Habitat factors associated with the variability of structure and species composition of breeding bird communities in urban greenery in Lviv. *Presentation for the XIII International Young Scientists Conference "Biology: From a Molecule Up to the Biosphere"* (Nov 28-30, 2018, V. N. Karazin Kharkiv National University, Kharkiv, Ukraine).
- [5] <u>Dubovyk</u>, O. 2018. The importance of urban greenery in Lviv for preserving biodiversity among birds in city. *Presentation* for the Scientific Conference "State and biodiversity of ecosystems of Shatsk National Nature Park and other protected areas" (Sep 13-16, 2018, Shatsk National Nature Park, Shatsk, Ukraine).
- [4] <u>Dubovyk</u>, O. 2018. Winter bird assemblages in urban greenery in Lviv, Ukraine. *Presentation for the XIV International Scientific Conference "Youth and Progress of Biology"* (Apr 10-12, 2018, Ivan Franko National University of Lviv, Lviv, Ukraine).
- [3] <u>Dubovyk</u>, O., and H. Kuzyo. 2017. Comparison of avian communities in cemeteries and urban parks of Lviv. *Presentation* for the Scientific Conference "State and biodiversity of ecosystems of Shatsk National Nature Park and other protected areas" (Sep 7-10, 2017, Shatsk National Nature Park, Shatsk, Ukraine).
- [2] <u>Dubovyk</u>, O., and H. Kuzyo. 2017. Point count method in studying winter bird assemblages of urbanized biotopes. *Presentation for the XIII International Scientific Conference "Youth and Progress of Biology"* (Apr 25-27, 2017, Ivan Franko National University of Lviv, Lviv, Ukraine).
- [1] Kuzyo, H., and O. <u>Dubovyk</u>. 2016. Avifauna of areas with different land use in Lviv suburbs. **Presentation** for the Scientific Conference "State and biodiversity of ecosystems of Shatsk National Nature Park and other protected areas" (Sep 8-11, 2016, Shatsk National Nature Park, Shatsk, Ukraine).

### Service

#### Professional Service

- Apr 2024 **Student Member**, *University Accountability Board at Old Dominion University*, present Norfolk, Virginia, USA
- Apr 2024 **Secretary**, Biology Graduate Student Organization at Old Dominion University, present Norfolk, Virginia, USA
- Jan 2024 Secretary / Co-founder, Old Dominion University Birding Club, Norfolk, Virginia, present USA
- Apr 2023 **President**, Biology Graduate Student Organization at Old Dominion University, Apr 2024 Norfolk, Virginia, USA
- Feb 2019 **Secretary / Board Member**, *West-Ukrainian Ornithological Society*, Lviv, Ukraine Aug 2020
- Jan 2019 **Secretary**, Zoological Club at Ivan Franko National University of Lviv, Lviv, Ukraine Dec 2019

Mar 2018 - **Co-founder / President**, Zoological Club at Ivan Franko National University of Dec 2018 Lviv, Lviv, Ukraine

#### Peer Reviewer

- Forest Ecology and Management (1 review, 2 co-reviews)
- Urban Forestry & Urban Greening (5)
- Ecology Letters (1 co-review)
- Ornithological Applications (1 co-review)
- Journal of Field Ornithology (1 co-review)
- The Wilson Journal of Ornithology (1 co-review)
- Behavioral Ecology and Sociobiology (1 co-review)

#### Conference Service

- Mar 2024 **Judge**, *Tidewater Science and Engineering Fair*, Tidewater Science Congress, 10 Mar 2024, Norfolk, VA
- Feb 2024 **Chair / Editor**, *Biology Graduate Student Organization Spring Symposium 2024*, Old Dominion University, 24 Feb 2024, Norfolk Portsmouth, VA
- Aug 2023 **Session Moderator Volunteer**, *ESA Annual Meeting*, Ecological Society of America, 6 11 Aug 2023, Portland, OR

#### Outreach Events

- [7] Open House Event: Zoology Lab, Department of Biological Sciences at Old Dominion University, 26 Oct 2024
- [6] Installing Bluebird Nest Boxes, Wildlife Club Meeting at Churchland High School, Portsmouth VA, 26 Mar 2024
- [5] Dangers of fieldwork, Wildlife Club Meeting at Churchland High School, Portsmouth VA, 18 May 2023
- [4] Wildlife Club Meeting, Churchland High School, Portsmouth VA, 27 Apr 2023
- [3] Scholar's Day: Zoology Labs, Department of Biological Sciences at Old Dominion University, 11 Feb 2023
- [2] Open House Event: General Biology Labs, *Department of Biological Sciences at Old Dominion University*, 19 Nov 2022
- [1] "Bird Point Count in Lviv", Suspilne Radio Lviv, 9 Dec 2019

### Membership in Professional Societies

- since 2024 American Society of Naturalists, USA
- since 2024 Society for the Study of Evolution, USA
- since 2023 **Ecological Society of America**, *USA*
- since 2023 Wilson Ornithological Society, USA
- since 2022 Animal Behavior Society, USA
- since 2022 American Ornithological Society, USA
- since 2021 **Biology Graduate Student Organization**, *Old Dominion University*, Norfolk, VA, USA
- since 2015 West-Ukrainian Ornithological Society, Lviv, Ukraine

## since 2015 **Ukrainian Society for the Protection of Birds (BirdLife International Chapter)**, *Kyiv, Ukraine*

### References

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- Dr. Ihor Shydlovskyy, Undergraduate and MS advisor, Associate Professor / Zoological Museum Director, Faculty of Biology, Ivan Franko National University of Lviv, Lviv, 79005, Ukraine shydlyk@gmail.com, +38 032 239 4548
- Hanna Kuzyo, Mentor, Protected Area Environmental Education Coordinator, Frankfurt Zoological Society in Ukraine, Lviv, 79000, Ukraine hannakuzyo@gmail.com, +38 093 712 9290

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