



# Curriculum Vitae

## Nataliia Matushkina

### PERSONAL INFORMATION



**Nataliia Oleksandrivna Matushkina**

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Sex F | Birthdate 04/12/1974 | Nationality Ukraine

Scientific degree	PhD in entomology
Academic status	Associated professor of the Department of Zoology
Position	Associated professor of Department of Ecology and Zoology
Department	Department of Ecology and Zoology
Faculty/Institute	Educational and Scientific Center "Institute of Biology and Medicine"

### EDUCATIONAL DISCIPLINES

Current year	<ol style="list-style-type: none"> <li>Zoology, study program "Biology", bachelor, 1 course, lectures &amp; practical classes</li> <li>Entomology, study program "Garden and Park Husbandry", bachelor, 2 course, lectures &amp; practical classes</li> <li>Principles and Methodology of Scientific Research in Zoology, study program "Biology", bachelor, 3 course, lectures</li> <li>Cultivation of invertebrates and basics of natural museology, study program "Biology", master, 2 course, lectures and practical classes</li> <li>Evolutionary morphology of animals, study program "Biology", master, lectures and practical classes</li> <li>Phylogenetic analysis, study program "Biology", master, lectures and practical classes</li> </ol>
Previously	<ol style="list-style-type: none"> <li>Animal phylogenetics, study program "Biology", master, lectures and practical classes</li> <li>Animal anatomy (of invertebrates), study program "Biology", master, lectures and practical classes</li> <li>Anatomy of invertebrates), study program "Biology", master, lectures and practical classes</li> <li>Applied arachnoentomology, study program "Biology", master, 2 course, lectures and practical classes Animal anatomy of invertebrates, study program "Biology", master, lectures and practical classes</li> <li>General Entomology, study program "Biology", bachelor, 4 course, lectures</li> <li>General principles of classification and nomenclature of animals, study program "Biology", bachelor, 4 course, lectures</li> <li>Modern trends in zoology, study program "Biology", bachelor, 4 course, lectures</li> <li>Principles of animal systematics and taxonomy, study program "Biology", master, lectures and practical classes</li> <li>Medical Biology, education program «Medicine», practical classes</li> <li>Laboratory diagnosis of parasitic infestations, education program «Medicine», practical classes</li> </ol>

## PROFESSIONAL EXPERIENCE

Period (start from the last)	Stage (description)
Since 2017	Associate Professor, Department of Ecology and Zoology
	Taras Shevchenko National University of Kyiv
	Teaching of disciplines
	Education
2006-2017	Associate Professor, Department of Zoology
	Taras Shevchenko National University of Kyiv
	Teaching of disciplines
	Education
2000-2006	Assistant Professor, Department of Zoology
	Taras Shevchenko National University of Kyiv
	Teaching of disciplines
	Education
1997-2000	Postgraduate student
	Taras Shevchenko National University of Kyiv
	Study of morpho-functional features of the ovipositor in dragonflies (Insecta, Odonata)
	Science
1992-1997	Student of Biological Faculty
	Taras Shevchenko National University of Kyiv
	Learning at the Department of Zoology
	Education

## TRAINING AND INTERNSHIP

Period (start from the last)	Stage (description)
2017	Taras Shevchenko National University of Kyiv. Language courses "English for professional purposes", certificate № 2927.
2007	Senckenberg Natural History Collections of Dresden (Німеччина).
2004	Max-Planck-Institute for Metals Research, Evolutionary Biomaterials Group, Stuttgart (Німеччина).
2002	I.I.Schmalhausen Institute of Zoology of the National Academy of Science of Ukraine Thesis for the scientific degree of candidate of science, speciality 03.00.09 – entomology: "Morpho-functional features of the ovipositor in dragonflies (Insecta, Odonata)".

## SKILLS

Name	Level (description)
Native language	Russian, Ukrainian
Foreign language 1	German, A2 (ZDaF), certificate № PH 277115
Foreign language 2	English, B2, certificate № 2927
Administration and Management	Secretary of the Department of Zoology (2002-2008). Responsible for the official site of the Institute of Biology and Medicine (2017).
Digital skills	Phylogenetic analysis: WinClada, TNT, Mesquite software package Graphic design: Adobe Photoshop Statistics: PaST, Google digital tools Educational environment: Google digital tools, Notion, Telegram
Another professional skills	Manual dissection of insects, light microscopy, scanning electron microscopy (LEO 1530VP, Hitachi S-4800, and Zeiss EVO-50 SEM), measurement of the mechanical properties of biological tissues by means of the load cell transducer, phylogenetic reconstruction, insect catching and identification.
Fields of interest	Insects, phylogeny, functional morphology, evolutionary morphology, reproductive system, reproductive behaviour, fauna of Ukraine, urban ecology, tri-trophic interactions, Archaeognatha, Zygentoma, Odonata, Hymenoptera.

## ADDITIONAL INFORMATION

Name	(names of publications, presentations, projects, conferences, seminars, names of awards and prizes, membership in academies, professional and scientific associations, etc.)
Recent & Essential publications	<p>57 publications in the field of zoology and ecology, including 3 reference books (2 in co-authorship), 13 methodological publications (including 3 textbooks, 1 course of lectures, 9 manuals), 41 research papers, of which 28 were published in journals from the Scopus.</p> <p>Peer-reviewed research papers published within the last 5 years:</p> <ol style="list-style-type: none"> <li>1. Matushkina N., 2017. Ovipositor setation in oldest insects (Insecta: Archaeognatha) revealed by SEM and He-Ion microscopy. <i>Micron</i> 101 (2017) 138–150.</li> <li>2. Klass K.D., Matushkina N.A., 2018. The exoskeleton of the male genitalic region in Archaeognatha, with hypotheses on the early evolution and the morphological interpretation of genitalia in insects. <i>Arthropod Systematics &amp; Phylogeny</i> 76(2): 235-294.</li> <li>3. Stetsun H., Rajabi H., Matushkina N., Gorb S.N. (2019): Functional morphology of the sting in two digger wasps (Hymenoptera: Crabronidae) with different types of prey transport. <i>Arthropod Structure and Development</i> 52: 100882.</li> <li>4. Matushkina N. A., Klass K.-D. (2020) Male genitalia of Charimachilis (Insecta: Archaeognatha) and the status of archaeognathan “paleoforms”. <i>Organisms Diversity &amp; Evolution</i> 20: 253–266.</li> <li>5. Stetsun H., Matushkina N. (2020): Sting morphology of the European hornet, <i>Vespa crabro</i> L., (Hymenoptera, Vespidae) re-examined. <i>Entomological Science</i> 23(4): 416-429.</li> </ol> <p>Most essential tutorials published within the last 5 years:</p> <ol style="list-style-type: none"> <li>1. Matushkina, N.O. Odonata of Central Ukraine: A Field Guide to Common Species [Бабки (Odonata) Центральної України: Польовий атлас-визначник найпоширеніших видів: довідник]. - К.: Талком, 2020. – 104 с.</li> <li>2. Matushkina, N.O. Zoology. Part 1: Invertebrate Zoology. Workbook to Practical course [Зоологія. Частина 1: Зоологія безхребетних. Робочий зошит для практичних занять]. – Київ: 2019. – 100 с. [Електронне видання]</li> <li>3. Tutorial to Practical Course of Zoology. Part 2^ Vertebrates [Методичні рекомендації до практикуму з дисципліни «Зоологія» Частина 2: зоологія хордових / Укладачі Мякушко С.А., Матушкіна Н.О.] – Київ: 2020. – 63 с. [Електронне видання]</li> <li>4. Matushkina, N.O., comp. Entomology: Lectures [Ентомологія: курс лекцій]. – Київ, 2020. – 111 с. [Електронне видання].</li> </ol>
Projects	<ol style="list-style-type: none"> <li>1. 2018 - Senckenberg Naturhistorische Sammlungen Dresden (SNSD), Germany: Alumni Network Grant.</li> <li>2. Senckenberg Naturhistorische Sammlungen Dresden (SNSD), Germany: continuation of scientific project «The female genitalic region of Aeshnidae (Odonata) as a source of phylogenetic and evolutionary information», supported by the Senckenberg Institution special grant for guest researchers, 2015.</li> <li>3. Senckenberg Naturhistorische Sammlungen Dresden (SNSD), Germany: scientific project «The female genitalic region of Aeshnidae (Odonata) as a source of phylogenetic and evolutionary information», supported by the German Academic Exchange Service (DAAD, No. 322 /or-e), 2012.</li> <li>4. Marais du Vigueirat (France) and Christian-Albrecht-University of Kiel (Germany); project «Scientific partnership on the oviposition behaviour of <i>Lestes macrostigma</i> (Odonata)», supported by the Les Amis des Marais du Vigueirat (France), 2010.</li> <li>5. Senckenberg Naturhistorische Sammlungen Dresden (SNSD), Germany: scientific project “The morphology, function, and evolution of the female genitalic region in Archaeognatha, Zygentoma, and Insecta in general”, supported by the German Research Foundation (DFG, KL 1162/5-1), 2009.</li> <li>6. Senckenberg Naturhistorische Sammlungen Dresden (SNSD), Germany: scientific project “Morphology of the female genitalia and other abdominal structures in Zygentoma”, supported by the German Academic Exchange Service (DAAD, No. 322 – A/08/94162), 2008.</li> <li>7. Senckenberg Naturhistorische Sammlungen Dresden (SNSD), Germany: scientific project “Reconstruction of the phylogeny of Odonata based on the morphology of the female genitalia”, supported by the German Research Foundation (DFG, grant 436 UKR 17/27/06), 2007.</li> <li>8. Max-Planck-Institute for Metals Research, Biomaterials Group, Stuttgart, Germany; scientific project “Mechanical properties of insect cuticle”; supported by MPI, 2004.</li> </ol>

Meetings	<p><i>International conferences abroad Ukraine participated within the last 5 years:</i></p> <ol style="list-style-type: none"> <li>1. 6th European Congress on Odonatology, Slovenia, 2022.</li> <li>2. 9th Dresden Meeting on Insect Phylogeny, Germany, 2019.</li> <li>3. 3rd International Conference «Smart Bio», Litva, 2019.</li> <li>4. 8th Dresden Meeting on Insect Phylogeny, Germany, 2017.</li> <li>5. 7th International Symposium of the Environmental Physiology of Ectotherms and Plants, Estonia, 2017.</li> </ol>
Reviewing	Scientific Reports, Zoomorphology, Arthropod Structure and Development, Arthropod Systematics & Phylogeny, Journal of Zoology, Organisms Diversity and Evolution, Micron, International Journal of Odonatology, Acta Zoologica Bulgarica, Annales de la Société entomologique de France, Vestnik Zoologii.
Professional memberships	Worldwide Dragonfly Association, Ukrainian Entomological Society. Member of the editorial board of the online journal Ukrainska Entomofaunistica. Member of the editorial board of the journal Beekeeping of Ukraine.
Scientometrics	Scopus: 28 documents, 310 total citations by 175 documents h-index: 11
Courses learned	Taras Shevchenko National University of Kyiv, English course for academics, 2017 (B2)
Certifications	<p>2017 - English for professional purposes, certificate № 2927.</p> <p>2021 - KNU Teach Week, certificate KNU dated 25.01.2021,</p> <p>2021 - Google's digital tools for institutions of higher, professional pre-higher education (joint project of MES i Google Ukraine), certificate dated 19.10.2021;</p> <p>2021 - Case study: how to solve complex tasks in business and life, certificate by Prometheus 17.12.2021;</p> <p>2022 - Practical Tips for EdTech in Higher Education, certificate by British Council 17.02.2022;</p> <p>2022 - e-Learning Ecologies: Innovative Approaches to Teaching and Learning for the Digital Age, certificate by Coursera 02.09.2022.</p>
Prizes and awards	2022 - Gratitude of Ministry of Education and Science of Ukraine