

Natalia Ershova

Curriculum Vitae

Department of Ecology and Evolution
University of Chicago

Contact information

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[ResearchGate profile](#)

Scientific interests

Invertebrate zoology
Ecology of marine communities
Ecology of parasites

Education

- Sep 2017 – present **University of Chicago**
Graduate student in the Department of Ecology and Evolution
Advisor: Dr. Catherine Pfister
- Sep 2015 – Jun 2017 **Lomonosov Moscow State University, Russia**
Masters of Science in Invertebrate Zoology and Ecology; with honors. GPA: 4.0
Thesis: Ultrastructure of the axial complex of organs and associated structures in *Chiridota laevis* Fabricius 1780 (Echinodermata, Holothuroidea)
- Sep 2011 – Jun 2015 **Lomonosov Moscow State University, Russia**
Bachelors of Science in Biology; with honors. GPA: 3.86
Senior Thesis: Microscopic anatomy of the axial complex of organs in *Chiridota laevis* Fabricius 1780 (Echinodermata, Holothuroidea)

Research experience

- Sep 2017 – present **Graduate Student Researcher**, University of Chicago
Advisor: Dr. Catherine Pfister
- Sep 2015 – Jun 2017 **Graduate Student Researcher**, Lomonosov Moscow State University
Advisor: Dr. Olga Ezhova
- Sep 2011 – Jun 2015 **Undergraduate Researcher**, Lomonosov Moscow State University
Advisors: Dr. Vladimir Malakhov, Dr. Olga Ezhova

Field research:

- Jun – Aug 2014 **Marine Biology Field Practice**, White Sea Biological Station, Poyakonda (Russia)
- May 2014 **Fresh Water Biology Field Practice**, Glubokoye Lake Biological Station, Zvenigorod (Russia)
- Jul 2013 **Biology Field Practice**, White Sea Biological Station, Poyakonda (Russia)
- May – Jun 2013 **Summer “Climate Zone” Biological Field Practice** in Utrish, Tulskiy Reserve, Kandalaksha Reserve (Russia)
- May – Jul 2012 **General biology practice**, Zvenigorod Biological Station, Zvenigorod (Russia)

Publications

Microscopic anatomy of the axial complex and associated structures in the brittle star *Ophiura robusta* Ayres, 1854 (Echinodermata, Ophiuroidea). Ezhova, O.V., Lavrova, E.A., **Ershova, N.A.** et al. *Zoomorphology* (2015) 134: 247. doi:10.1007/s00435-014-0251-6

Microscopic anatomy of the axial complex and associated structures in the sea cucumber *Chiridota laevis* Fabricius 1780 (Echinodermata, Holothuroidea). Ezhova, O.V., **Ershova, N.A.**, Malakhov V.V. *Zoomorphology* (2017) 136: 205. doi: 10.1007/s00435-016-0341-8

Ershova, N. (2018), Digest: Ecological crossover effects on sexual selection*. *Evolution*. doi:10.1111/evo.13588

Conferences

- Feb 2016 **The axial complex of organs of Echinoderms and related questions.** Moscow, Borisyak Paleontological Institute, Russia – *oral presentation*
- Apr 2016 **Lomonosov conference for young scientists,** Invertebrate zoology section Moscow, Lomonosov Moscow State University, Russia – *oral presentation*
- Aug 2017 **International Congress on Invertebrate Morphology,** Lomonosov Moscow State University, Russia – *poster*

Awards

- 2015 **First place** at Universiade “Lomonosov” on modern problems of biology, Lomonosov Moscow State University, Russia
- 2018 **Henry Hinds Fund for Graduate Student Research** in Evolutionary Biology, administered by the Committee on Evolutionary Biology (CEB) at University of Chicago.

Participation in grants

Russian Foundation for Basic Research n. 17-04-00897 Axial complex of organs of sea lilies (Crinoidea, Echinodermata), P.I. Ezhova O.V., 2016

Russian Foundation for Basic Research n. 16-34-00460 Evolution of the water-vascular system of Echinodermata: comparative anatomical and ultrastructural aspects, P.I. Ezhova O.V., 2015

Russian Foundation for Basic Research n. 14-04-00366 Coelomic system of echinoderms (Echinodermata): microscopic anatomy and ultrastructure, P.I. Malakhov V.V., 2013

Work experience

- 2012 – present **Translator**
Freelance translation from English to Russian and from Russian to English and editing of academic papers, medical documentation for pharmaceutical companies, presentations and other types of text
- Jun 2015 **Teaching professional,** Clever Camp, Moscow (Russia)
Biology teacher for students aged from 6 to 12.
Activities included the development of a program for teaching entertaining biology for younger children, including practical experiments and observation

- 2011 – 2017 **Tutor**
Freelance tutor of biology, chemistry, physics and English for students of different ages (from 7 y.o. to adults)
- Oct 2015 – Nov 2015 **Manager**
"Festival of Science" directorate, Moscow (Russia)
Organization and guidance of international participants of the Annual Moscow Festival of Science, including translating, assisting with lectures, organization of leisure time and working as a guide in Moscow.
- Aug 2017 **Volunteer at ICIM conference**
Organization of the International Congress on Invertebrate Morphology

Skills

- Languages: English, Russian
- Laboratory: Light microscopy; transmission electronic and scanning electronic microscopy; preparation of samples for light, transmission and scanning electronic microscopy; morphological study and dissection of animals; microtome and ultramicrotome; 3D reconstruction; biological illustration; DNA extraction; PCR; Sanger sequencing; basic skills in tree building; basic aquarium skills; centrifuge; pipette and micro-pipette
- Field: Plankton and benthos sample collecting; basic knowledge of geobotany analysis; marine organism identification; basic skills of pollen identification.