

# Daryna Zavadska

graduate student in Omics Data Analysis, Uvic  
B.Sc. Biology

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## Research experience

- 16/11/2021– present Technician in a BEAP lab, Institute of Evolutionary Biology, University of Pompeu Fabra, Barcelona, Spain
- 01/09/2020– 30/11/2020; Intern at Peter Kroth Plant Ecophysiology research group, University of Konstanz, Germany
- 15/01/2021– 15/04/2021
- 16/02/2020– 16/05/2020 Intern at Vladimir Hampl Evolutionary protistology research group, BIOCEV, Prague, Czech Republic
- 01/09/2019– 31/10/2019 Intern at Michael Hippler Plant Biochemistry and Biotechnology research group, Institute of Biology and Biotechnology of Plants, Munster, Germany
- 02/10/2018– 16/11/2021 Undergraduate researcher at Plant Biology department, Taras Shevchenko National University of Kyiv, Ukraine
- 01/09/2017– 01/09/2018 Undergraduate researcher at Protein Enzymology research group, Institute of Molecular Biology and Genetics of Ukrainian National Academy of Sciences, Kyiv, Ukraine

## Conferences & Publications

- Conferences
- International Society of Protistologists Meeting–2021 – Best poster presentation (online mode)
  - Kharkiv international conference "From molecule to biosphere"–2021 – Oral presentation (online mode)
  - ProtistOnline–2020 non-presenting participation
  - Kharkiv international conference "From molecule to biosphere"–2019 – Poster presentation

## Skills

- Molecular biology** Agarose/SDS–PAGE gel electrophoresis, Western blotting, gel silver staining, PCR(including qPCR), bacterial/protist transformation/screening, RNA/DNA/protein extraction, cDNA synthesis, membrane protein isolation
- Biochemistry** Thin layer chromatography, titration, spectrophotometry (including 77K spectroscopy), fluorometry, sucrose gradient ultracentrifugation, Bradford/BCA assay
- Cell culture** Plating & maintenance of bacterial/algal/heterotrophic protist cultures, medium preparation, cell count(flow cytometer/microscope), photobioreactor setup
- Microscopy** Light/fluorescent/confocal microscopy, immunostaining/slide preparation, mitosis count, image processing in ImageJ
- Bioinformatics** Statistics/data analysis in R, work with Linux terminal and bash, sequence processing/analysis, phylogenetics, RNA secondary structure modelling

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## Achievements & awards

- Olympiads
- International Biology Olympiad – Bronze medal (2017)
  - National Biology Olympiads (final tour) – II diploma (2015), I diploma (2016), I diploma (2017)
- Biological Tournaments
- National Biological Tournament (final tour) – I diploma & nomination winner (2015), III diploma & nomination winner (2016)
  - Biological Tournament of Kharkiv “Krokus” – I diploma (2016), I diploma (2017), I diploma (2018), I diploma (2019)
  - Lviv Biological tournament “Evolution” – I diploma (2018)
- Scholarships
- Mitacs Globalink-2020 undergraduate internship program awardee (internship cancelled due to Covid-19 pandemic)
  - Ukrainian President’s Scholarship awardee
- Online courses
- Certificate from courses “R in data analysis”, “Basic statistics” and “Molecular phylogenetics” (issued by Stepik)

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## Other activities

- Teaching
- Biology Olympiad coach in Kyiv-Pechersk Lyceum “Leader”
  - Biology project tutor in LOSC-2019 Summer School of Kyiv Science Lyceum №145
  - Preparing school students for competitions
- Volunteering
- Jury member and volunteer on National Biological Tournaments
  - Jury member and volunteer on National Biological Olympiad (semi-finals) & lecture course coordinator on selection to National Olympiad finals

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## Languages

- English C1 (IELTS 8.0)
- German A2
- Ukrainian Native
- Russian Fluent

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## Scientific Interests

- Topics Eukaryogenesis, evolutionary protistology, evolutionary ecology, molecular taxonomy, evolution of meiosis, systems biology & network interactions
- Methods Metagenomics, metatranscriptomics, NGS, sequence analysis, molecular phylogenetics, imaging & biological image analysis, spectrophotometry/fluorometry