

## Alexey Shipunov, Ph.D.

A researcher, information scientist, educator, and a leader.  
Focused on bridging traditional botanical research with modern technology.  
Skills include project management, data analysis, mentoring, securing financial opportunities and collections management.

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### PROFESSIONAL EXPERIENCE

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| <b>Kyoto University</b> , <i>Visiting Professor</i>  | <b>2019–present</b> |
| Work on the plant phylogeny and evolution projects   |                     |
| <b>Minot State University</b> , <i>Assistant Professor, Associate Professor</i>  | <b>2010–2019</b>    |
| Completed the flora of North Dakota research • Curated, cataloged, and expanded two-fold University herbarium collection • Built and restructured local greenhouse to imitate a tropical rainforest and conservatory for rare plant species • With city and university, developed plans on flood recovery and tree conservation • Developed courses and textbooks on plant biology, data analysis, concepts of biology, and biogeography |                     |
| <b>Marine Biological Laboratory</b> , Woods Hole, <i>Associate Researcher, Bioinformatist</i>  | <b>2008–2010</b>    |
| Successfully bridged Encyclopedia of Life tools and biological taxonomy  |                     |
| <b>University of Idaho</b> , <i>Postdoctoral Fellow</i>  | <b>2006–2008</b>    |
| Strengthened the “novel weapons” hypothesis on the diversity of endophytic fungi in <i>Centaurea stoebe</i>  |                     |
| <b>Institute of Information Technologies</b> , Moscow, <i>Lecturer</i>   | <b>2004–2005</b>    |
| Improved effectiveness of IT Adult Secondary Education • Developed education plans for sixteen new courses   |                     |
| <b>Kew Gardens</b> , London, <i>Postdoctoral Fellow</i>  | <b>2002–2003</b>    |
| Applied new synthetic approach to evolution and temporal diversification of Eurasian orchids   |                     |
| <b>Moscow State University</b> , Higher Plants Department, <i>Lecturer</i>   | <b>1998–2002</b>    |
| Developed plant biology course and textbook  |                     |

### EDUCATION

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**Moscow State University**, Higher Plants, **Ph. D.**, 1998 • Plantains (genera *Plantago* L. and *Psyllium* Mill., Plantaginaceae) of European Russia and adjacent areas **Moscow State University**, Higher Plants, **M. Sc.**, *magna cum laude*, 1990 • Knotweeds (*Polygonum aviculare* L. and allies) of Central Russia

### AWARDS

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Research grant, North Dakota INBRE (2014) • Research grant, Prairie Biotic Research, Inc. (2013) • Research grant from the University of North Dakota (2012) • Research grant, Great Plains Center for Community Research and Service (2011) • Research grant, Norwegian Research Council (2006) • NSF/IGER research grant for the Center for Research on Invasive Species & Small Populations, CRISSP (2005) • Special Andrei Sakharov diploma (2005) • Research grant, Royal Society, UK (2003) • Excellence Award in Teaching Biology (1995)

### AUTHORED PUBLIC DATABASES AND RESOURCES

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| <i>Atlas to the Trees and Shrubs of Minot State University</i> | <a href="http://www.natureatlas.org/plants/minot/">http://www.natureatlas.org/plants/minot/</a>                     |
| <i>Biological Journals</i>                                     | <a href="http://ashipunov.info/journals/">http://ashipunov.info/journals/</a>                                       |
| <i>Flora of North Dakota: Checklist</i>                        | <a href="http://ashipunov.info/shipunov/fnddb/">http://ashipunov.info/shipunov/fnddb/</a>                           |
| <i>Hemihomonyms Database</i>                                   | <a href="http://ashipunov.info/shipunov/os/homonyms/">http://ashipunov.info/shipunov/os/homonyms/</a>               |
| <i>Introduction to Botany</i> and other textbooks              | <a href="http://ashipunov.me/shipunov/school/textbooks.htm">http://ashipunov.me/shipunov/school/textbooks.htm</a>   |
| <i>North Dakota Ethnobotany Database</i>                       | <a href="http://ashipunov.info/shipunov/fnddb2/nd_eth.htm">http://ashipunov.info/shipunov/fnddb2/nd_eth.htm</a>     |
| <i>Plant Images in Public Domain</i>                           | <a href="http://ashipunov.me/shipunov/ph/">http://ashipunov.me/shipunov/ph/</a>                                     |
| <i>Systema Angiospermarum</i>                                  | <a href="http://ashipunov.info/shipunov/ang/ang-en.htm">http://ashipunov.info/shipunov/ang/ang-en.htm</a>           |
| <i>Systema Naturae</i>   | <a href="http://ashipunov.info/shipunov/os/os-en.htm">http://ashipunov.info/shipunov/os/os-en.htm</a>               |
| <b>R books and software</b>                                    | <a href="http://ashipunov.info/shipunov/software/r/r-en.htm">http://ashipunov.info/shipunov/software/r/r-en.htm</a> |
| <b>T<sub>E</sub>X software</b>                                 | <a href="https://ctan.org/author/shipunov/">https://ctan.org/author/shipunov/</a>                                   |
| <i>My Github</i>   | <a href="https://github.com/ashipunov/">https://github.com/ashipunov/</a>   |

## PUBLICATIONS

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221 publications in 1989–2020, including 74 peer-reviewed articles and 17 books (please see my [full CV](#) for the complete list). Most cited peer-reviewed articles are:

- Shipunov A.**, Carr S., Furniss S., Pay K., Pirani J.R. 2020. First phylogeny of Bitterbush Family, Picramniaceae (Picramniales). *Plants*. 9: 284.
- Shipunov A.** *Plantago* and *Littorella*. In: Freeman, C. and Rabeler R. (eds.) *Flora of North America*. 2019. Volume XVII. P. 280–293. Oxford University Press, New York and Oxford.
- Shipunov A.**, Gladkova S., Timoshina P., Lee H.J., Choi J., Despiegelaere S. and Connolly B. 2019. Mysterious chokeberries: new data on the diversity and phylogeny of *Aronia* Medik. (Rosaceae). *European Journal of Taxonomy* 570: 1–14.
- Hassemer G., Bruun-Lund S., **Shipunov A.**, Briggs B.G., Meudt H.M., Rønsted N. 2019. The application of high-throughput sequencing for taxonomy: The case of *Plantago* subg. *Plantago* (Plantaginaceae). *Molecular Phylogenetics and Evolution*. 138: 156–173.
- Mushegian A., **Shipunov A.**, Elena S.F. 2016. Changes in the composition of the RNA virome mark evolutionary transitions in green plants. *BMC Biology*. 14: 68.
- Choi J., Lee H.J., **Shipunov A.** 2015. All that is gold does not glitter? Age, taxonomy, and ancient plant DNA quality. *PeerJ*. 3: e1087.
- Shipunov A.** 2015. *Plantago schrenkii* is *P. maritima*: morphological and molecular evidence. *Annales Botanici Fennici*. 52: 33–37.
- Volkova P., **Shipunov A.**, Borisova P., Moseng R., Ivens R. 2014. In search of hybridity: the case of Karelian spruces. *Silva Fennica*. 48: 1072.
- Volkova P., Kasatskaya S., Boiko A., **Shipunov A.** 2011. Stability of leaf form and size during specimen preparation of herbarium specimens. *Feddes Repertorium*. 121: 219–225.
- Shipunov A.**, Kosenko Y. Volkova P. 2011. Floral polymorphism in common primrose (*Primula vulgaris* Huds., Primulaceae) of the Northeastern Black Sea coast. *Plant Systematics and Evolution*. 296: 167–178.
- Shipunov A.**, Shipunova E. 2011. *Haplanthus* story: rediscovery of enigmatic flowering plant from Honduras. *American Journal of Botany*. 98: 761–763.
- Serebryanaya A., **Shipunov A.** 2009. Morphological variation of plants on the uprising islands of northern Russia. *Annales Botanici Fennici*. 46: 81–89.
- Newcombe G., **Shipunov A.**, Eigenbrode S.D., Raghavendra A.K.H., Ding H., Anderson C.L., Menjivar R., Crawford M., Schwarzländer M. 2009. Endophytes influence protection and growth of an invasive plant *Communicative & Integrative biology*. 2: 29–31.
- Shipunov A.**, Newcombe G., Raghavendra A.K.H., Anderson C.L. 2008. Hidden diversity of endophytic fungi in an invasive plant. *American Journal of Botany*. 95: 1096–1108.
- Volkova P., **Shipunov A.** 2008. Morphological variation of *Nymphaea* (Nymphaeaceae) in European Russia. *Nordic Journal of Botany*. 25: 329–338.
- Patterson D.J., Faulwetter S., **Shipunov A.** 2008. Principles for a names-based cyberinfrastructure to serve all of biology. *Zootaxa*. 1950: 153–163.
- Volkova P., Rudakova V., **Shipunov A.** 2007. Sex ratios in populations of *Geranium sylvaticum* in European Russia. *Plant Species Biology*. 22: 125–128.
- Volkova P., **Shipunov A.**, Elven E., Brochmann Ch. 2008. The seashore sedges of the Russian Kola Peninsula: How many species? *Flora*. 203: 323–333.
- Pillon Y., Fay M.F., Hedren M., Bateman R.M., Devey D., **Shipunov A.**, van der Bank M., Chase M.W. 2007. Evolution and temporal diversification of western European polyploid species complexes in *Dactylorhiza* (Orchidaceae). *Taxon*. 56: 1185–1208.
- Volkova P., Choob V., **Shipunov A.** 2007. The flower organ transition in water lily (*Nymphaea alba* s.l., Nymphaeaceae) under cross-examination with different morphological approaches. *Belgian Journal of Botany*. 140: 60–72.
- Pillon Y., Fay M.F., **Shipunov A.**, Chase M.W. 2006. Species diversity versus phylogenetic diversity: a practical study in the taxonomically difficult genus *Dactylorhiza* (Orchidaceae). *Biological Conservation*. 129: 4–13.
- Shipunov A.**, Bateman R.M. 2005. Geometric morphometrics as a tool for understanding *Dactylorhiza* (Orchidaceae) diversity in European Russia. *Biological Journal of Linnean Society*. 85: 1–12.
- Shipunov A.**, Fay M.F., Pillon Y., Bateman R.M., Chase M.W. 2004. *Dactylorhiza* (Orchidaceae) in European Russia: combined molecular and morphological analysis. *American Journal of Botany*. 91: 1419–1427.