

Artëm Sozontov



CONTACT

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Date of birth: 26 Jul 1989

EDUCATION

PhD in ecology & zoology

Mar 2019: Udmurt State University (UDSU) & Institute of Plant and Animal Ecology (Russian Academy of Sciences). PhD theses: “Fauna and ecology of spiders (Aranei) of the Udmurt Republic: diversity, habitat distribution, community structure”

MSc in bioecology

Sep 2018 – Jul 2020: UDSU. Department of Botany, Zoology & Bioecology. Average GPA 4.8 of 5. MD theses: “Functional diversity of the spiders of the Udmurt Republic”

Specialist degree in biology (equal to MSc)

Sep 2006 – Jul 2011: UDSU. Biology and Chemistry Faculty. Average GPA 4.5 of 5. MD theses: “The spiders of the Nechkinskiy National Park”

TEACHING AND RESEARCH POSITIONS

Dec 2018 – Present “Environmental toxicology” lab	Senior research associate (full time) Institute of Plant and Animal Ecology, Ekaterinburg
Sep 2019 – Present	Associate professor (part time) Ural Federal University, Ekaterinburg
Dec 2016 – Aug 2020	Senior lecturer Udmurt State University, Izhevsk
Dec 2012 – Jun 2015	Senior research associate State Zoo of Udmurt Republic, Izhevsk
Oct 2012 – Dec 2016 “Ecology of Animals” team	PhD program in ecology Udmurt State University, Izhevsk
Oct 2011 – Oct 2012 Biology	Secondary school teacher State school № 46, Izhevsk
Sep 2011 – Oct 2012 Department of Ecology of Animals	Junior research associate Udmurt State University, Izhevsk
Jan 2011 – Jun 2011 Biology and Chemistry	Secondary school teacher State school of Chernuska, Udmurt Republic
Oct 2009 – Jul 2010	Teacher in additional education Republic Centre of Ecology and Biology, Izhevsk

RESEARCH EXPERIENCE

- The mobilization techniques for primary data on biodiversity: from literature legacy to digital lake RSF grant № 24-24-00460 (2024–2025)
- Mites (Acari) in the Caspian Sea seashores: faunogenetic relationships and structure of communities, RFBR grant № 20-54-56054 (2021–2023)
- Microhabitat distribution of soil macroinvertebrates on polluted areas, RFBR grant № 18-04-00160 (2019–2020)
- The Restorative Dynamics in Forest Ecosystems after the Cessation of Industrial Emissions

RESEARCH EXPERIENCE (*continuation*)

- Long-term variation of the small mammals' beta-diversity under heavy metals pollution (2019–2020)
- Fauna and ecology of the spiders of Udmurt Republic: diversity (TD & FD), distribution, assemblages' structure (2011–2019)
- The structure and trends of the fauna of the ground arthropod populations on the transitive zoogeographical area, RFBR grant № 14-04-31178, **supervisor** (2013–2015)
- Spider taxonomy and distribution West of Urals (2011–2016)
- The endangered invertebrate species of the Udmurt Republic (2007–2012) [see Adakhovkiy et al., 2012]

SKILLS

- **Data processing with R** (advanced):
Data engineering with `tidyr`, `dplyr` & `dbplyr`
Data visualisation with `ggplot2` & `plotly`
Multivariate statistics with `ape`, `ade4` & `vegan`
Biodiversity (TD, FD & PD) estimation (incl. Hill numbers)
Species distribution modelling (`dismo`) and other sorts of spatial modelling
Interactive reports (`rmarkdown`), parallel computing, web applications (`shiny`), web/text parsing and other kinds of statistics and data wrangling
- **GIS** data management, processing & visualisation in QGIS & R (`sf`, `raster`, `stars`, `leaflet` etc.)
- Graphical processing (vector – Illustrator, raster – Photoshop). Editorial, layout (InDesign) and publishing skill

HONOURS AND AWARDS

- Honorary lecturer at the National Competition of technological projects “Grand Challenges” (2024)
- Runner-up for the Governor of Sverdlovsk Oblast's Award for Young Scientists (2023)
- Honorary lecturer at the National Conference in Ecology for young scientists (2022)
- Honorary lecturer at the 4th International arachnological conference “ArachnoMeeting” and 7th Field seminar in soil zoology (2021)
- The prize-winner project at the summer school in probability theory and statistics (2018)
- The best oral presentation at National Conference in Ecology for young scientists (2018)
- Award for the best oral presentation at 15th Congress of Russian Entomological Society (2017)
- Grateful letter of State Gymnasium for arranging of summer school in natural sciences (2017)
- The best poster presentation at National Conference in Ecology for young scientists (2016)
- Honorary lecturer at the seminar “An Integration of Basic and Additional Education” (2016)
- Diploma and scholarship of the Russian President for researching achievements (2015)
- Winner in Competition of scientific drawings (2014)
- Directive to be responsible for scientific work extension of State Zoo (2013)
- Diploma and scholarship of Udsu rector for researching achievements (2013)

CONFERENCES

- Annual Russian National Conference in Ecology for young scientists, Ekaterinburg (2012, 2016–2024: arranging the conferences and edition of proceedings, plenary lecturer)
- 13th National Congress in Population Ecology, N. Tagil (2024)
- 4th Forum of Rectors of Higher Education Institutions of the Russian Federation and the Islamic Republic of Iran, Moscow, 2023
- 14th, 15th and 16th Congress of Russian Entomological Society, St. Peterburg, Novosibirsk, Moscow (2012, 2017, 2022 respectively)
- 28th and 29th Congress of soil zoology, Moscow, Ulan-Ude (2018 and 2022 respectively)
- 4th International arachnological conference “ArachnoMeeting”, Ekaterinburg (2021: co-chair, arranging the conference, plenary lecturer, edition of proceedings)
- 7th Field seminar in soil zoology, Ekaterinburg (2021: arranging the conference, plenary lecturer)
- 3rd National Conference “Information technologies in biodiversity research”, Ekaterinburg (2020)
- 6th and 8th Field seminar in soil zoology, Naltchik, Tyumen (2019, 2023 respectively)
- 29th European Congress of Arachnology, Brno (2015)
- Steppes of the Northern Eurasia, Orenburg (2015)
- International conference “Applied and Regional Biogeography”, Izhevsk (2012)
- Three International conferences for Zoos’ science (2013, 2015, 2017: arranging the conferences and edition of proceedings)

CAREER DEVELOPMENT COURSES

- Summer school in DNA metabarcoding of soil communities (2023)
- Summer school in molecular phylogeny methods and genetic data use in biodiversity research (2022)
- Species distribution modelling in Biodiversity and climate change virtual laboratory – BCCVL (2020)
- Geospatial data wrangling with QuantumGIS (2020)
- Field school for soil zoologists (2019)
- Primary biodiversity data: reuse it and/or use more effectively (2019)
- Summer school in data wrangling and visualisation (2019)
- Summer school in probability theory and statistics (2018)
- Annual internship to the leading Russian arachnological teams: Perm State University (2010–2017), Zoological Museum of Moscow State University (2014)

LANGUAGES

- Russian (native)
- English (B2, – upper-intermediate)

PUBLICATIONS LIST

PEER-REVIEWED JOURNAL ARTICLES

- Ukhova N L, Esyunin S L, **Sozontov A N** (2024) **Spiders (Arachnida, Araneae) of the Visimskiy Biosphere Reserve (Middle Urals): 37 years of arachnological research** // Biodiversity Data Journal. Vol. 12. № e114930. P. 1–39. [in English]
- Makarova O L, Ermilov S G, **Sozontov A N** (2024) **Coastal mites (Acari: Mesostigmata, Oribatida) of the tideless Caspian Sea: the maritime acarocenoses of the Samoor Forest** // Acaralugia. [in print]
- Mukhacheva S V, Davydova Yu A, **Sozontov A N** (2022) **Small mammals of background areas in the vicinity of the Karabash copper smelter (Southern Ural, Russia)** // Biodiversity Data Journal. Vol. 9. № e70599. P. 1–19. [in English]
- Gasilin V V, Devjashin M M, Plasteeva N A, **Sozontov A N** (2021) **Holocene variation in the species diversity and relative abundance of ungulates in the Eurasian forest steppe** // Zoologicheskii Zhurnal. Vol. 100. № 12. P. 1401–1421. [in Russian with English summary]
- Mukhacheva S.V. , **Sozontov A.N.** (2021) **Long-term dynamics of small mammal communities in the period of reduction of copper smelter emissions: 2. β -diversity** // Russian Journal of Ecology. Vol. 52. № 6. P. 532–541. [in English]
- **Sozontov A N** (2021) **Spiders of the Udmurt Republic, Russia** // Biodiversity Data Journal. Vol. 9. № e70534. P. 1–27. [in English]
- Nekhaeva A A, **Sozontov A N** (2021) **IV International arachnological conference: the first meeting of Russian-speaking arachnologists in the online format** // Arachnologische Mitteilungen. Vol. 62. № 2. P. xi-xiii. [in English]
- Rodionov I V, **Sozontov A N** (2020) **On confidence estimation based on quantitative similarity coefficients** // Automation and Remote Control 81(2). P. 272–284. [in English]
- Esyunin S L, **Sozontov A N** (2016) **On a new Eurasian species of *Dictyna* Sundevall, 1833 (Aranei: Dictynidae), with taxonomic notes on poorly known Palaearctic *Dictyna* species** // Arthropoda Selecta 25 (2). P. 199–206. [in English]
- **Sozontov A N**, Esyunin S L (2015) **Taxonomic remarks about two spider species of the genus *Tetragnatha* Latreille, 1804 (Aranei, Tetragnathidae)** // Entomological Review. Vol. 95. № 3. P. 406–414 [in English], originally published in: Zoologicheskii Zhurnal. Vol. 94. № 3. P. 311–319 [in Russian with English Summary]
- **Sozontov A N** (2015) **On the distribution specificity of some European spider species near the eastern limits of their ranges** // Nauka Udmurtiyi 3 (73). P. 185–191. [in Russian with English summary]
- Esyunin S L, **Sozontov A N** (2015) **Spiders of the genus *Pisaura* Simon, 1885 (Aranei, Pisauridae) in Middle Volga and Cisurals territories, with notes on the distribution of *P. novicia* (L.Koch, 1878)** // Eurasian Entomological Journal 14 (4). P. 325–333. [in Russian with English Summary]
- Dedyukhin S V, **Sozontov A N**, Esyunin S L (2015) **On the interesting findings of spiders (Aranei) and herbivorous beetles (Coleoptera: Chrysomeloidea, Curculionoidea) from forest-steppe of Russian Plain's East** // Vestnik Udmurtskogo Universiteta – Biologiya 25 (1). P. 66–77. [in Russian with English summary]
- **Sozontov A N**, Esyunin S L (2014) **On the spider fauna (Arachnida: Aranei) of the 'Ust'-Belsk' Natural Park and its vicinities** // Arthropoda Selecta 23 (3). P. 301–310. [in English]
- **Sozontov A N**, Shirobokova (2014) **New to Udmurt fauna spider species from Igra District** // Vestnik Udmurtskogo Universiteta – Biologiya 24 (3). P. 143–147. [in Russian with English summary]
- **Sozontov A N** (2013) **Spiders (Arachnida, Aranei) of Udmurt Republic: history and prospect of studies** // Vestnik Udmurtskogo Universiteta – Biologiya 23 (3). P. 51–57. [in Russian with English summary]

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- **Sozontov A N, Esyunin S L (2012) On the spider fauna (Arachnida: Aranei) of Udmurt Republic // Arthropoda Selecta 21 (1). P. 85–95. [in English]**
 - **Sozontov A N (2012) First record of the wasp spider *Argiope bruennichi* (Aranei, Araneidae) from the Udmurt Republic // Vestnik Udmurtskogo Universiteta – Biologiya 22 (4). P. 152–153. [in Russian with English summary]**
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BOOKS & BOOK CHAPTERS

- Naumenko N I, Dedyukhon S V, **Sozontov A N** et al. (2023) **Red Data Book of Udmurt Republic.** 3th ed. Belgorod: Constanta publ. 500 pp. [In Russian]
 - **Sozontov A N, Esyunin S L (2022) Spiders of the Udmurt Republic: fauna, ecology, phenology and distribution.** Moscow: KMK Scientific Press Ltd. 286 pp. [in English]
 - **Sozontov A N (2019) Rare and endangered spider species of the “Nechkinskiy” National Park.** Izhevsk: RusHydro. 12 pp.
 - Morozova E G, Chashkin E I, **Sozontov A N** (2014). **Chapter VII. Fur seal medicine.** In: Walruses and fur seals in the Zoological park of Udmurtia. Moscow–Izhevsk: Institute of Computer Sciences publ. P. 136–157. [In Russian]
 - Chashkin E I, Chashkina N V, **Sozontov A N** (2014) **Chapter IV. Northern fur seal fattening up method.** In: Walruses and fur seals in Zoological park of Udmurtia. Moscow-Izhevsk: Institute of Computer Science publ. P. 112–126. [In Russian]
 - Adachovskiy D A, Dedyukhin S V, **Sozontov A N** (2012, 2022 in print) **Invertebrates.** In: Red Data Book of Udmurt Republic. Second Edition. Cheboksary: Perfectum publ. P. 16–92. [In Russian]
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CONFERENCE PROCEEDINGS

- Makarova O L, Kazemi S, Ermilov S G, **Sozontov A N** et al. (2023) **Mites (Acari) of the Caspian Sea shores: faunogenetic relationships and the structure of communities // Proceedings of the 4th Forum of Rectors of Higher Education Institutions of the Russian Federation and the Islamic Republic of Iran.** Moscsow: Moscow state university. *in print*.
- **Sozontov A N (2022) The mobilization of data on the distribution of spiders (Araneae) in Russia using citizen science opportunities // Materials of XVI Congress of Russian Entomological Society.** Moscow: KMK Scientific publ. , Moscow state university. P. 153 [in Russian].
- **Sozontov A N, Belskaya E A, Zolotarev M P, Vorobeichik E L (2022) Restoration of soil invertebrates after reduction of rmissions from a Copper Smelter // Proceeding of the international congress of soil zoology.** Ulan Ude, Russian Academy of Sciences. P. 152–154 [in Russian].
- Malykh D A, **Sozontov A N** (2022) **Spatial and microhabitat distribution of terrestrial arthropods in forests of Sverdlovsk Area // Proceedings of Annual Russian National Conference in Ecology for young scientists.** Ekaterinburg: Institute of Animals and Plants Ecology. P. 102–104 [in Russian].
- Rodionov I V, **Sozontov A N** (2019). **On the statistical significance of the similarity coefficients // Ecology & Evolution.** Proceedings of the international symposium. Ekaterinburg: humanities university. P. 594–595. [in Russian]
- **Sozontov A N (2018). Biotopic distribution of spiders (Aranei) in the republic of Udmurtia // Proceeding of the international congress of soil zoology.** Moscow: SIEE. P. 190–191 [in Russian]

CONFERENCE PROCEEDINGS (*continuation*)

- **Sozontov A N (2017) The spiders of the Udmurt Republic: diversity and zoogeography** // Ecology: facts, hypotheses, models // Proceedings of Annual Russian National Conference in Ecology for young scientists. Ekaterinburg: Institute of Animals and Plants Ecology. P. 126–131 [in Russian].
- **Sozontov A N (2017) The fauna and ecology of spiders of the Udmurt Republic: 10 years of investigating** // Materials of XV Congress of Russian Entomological Society. Novosibirsk: Garamond publ. P. 458–459.
- Uskova A V, **Sozontov A N**, Tselischeva L G (2016) **On the herpetobiont spiders' assemblages of oak forests of the Nurguh Natural Reserve** // Ecology: facts, hypotheses, models. Proceedings of Annual Russian National Conference in Ecology for young scientists. Ekaterinburg: Institute of Animals and Plants Ecology. P. 142–145 [in Russian].
- **Sozontov A N (2015) Steppe elements in the spider fauna of the Udmurt Republic** // Steppes of the Northern Eurasia: Proceedings of the international symposium. Orenburg: "Dimur" publ. P. 794–796. [In Russian]
- **Sozontov A N (2015) The distribution specificity of some European spider species near the eastern limits of their ranges** // 29th European Congress of Arachnology (24–28 August 2015, Brno, Czech Republic). Programme and Abstracts. Brno: Masaryk University; the Czech Arachnological Society, 2015. P. 155. [In English]
- **Sozontov A N**, Sadovnikova T D, Dultaeva I F (2015) **About violation of zoo rules by visitors: consequences, causes, prevention measures** // A Modern Zoo and Society: Proceedings of the international scientific and practical conference. Moscow–Izhevsk: Institute of Computer Sciences publ. P. 219–229. [In Russian]
- **Sozontov A N (2015) Preface** // A Modern Zoo and Society: proceedings of international scientific and practical conference. Moscow–Izhevsk: Institute of Computer Sciences publ. P. 6–7. [In Russian]
- Ermolaev I V, **Sozontov A N**, Uskova A V (2014) **On the spider fauna of common oak (*Quercus robur* L.) in the "Nechkinskiy" National Park** // The Kataev Memorial Readings – VIII. Pests and Diseases of Woody Plants in Russia. Proceedings of the International Conference. Saint Petersburg: Saint Petersburg State Forest Technical University publ. P. 29. [In Russian]
- **Sozontov A N**, Ezhova O V (2013) **Editors' preface** // 5 years of the State Zoo of Udmurtiya: actuality and prospects. Proceedings of Russian National conference. Izhevsk: UdsU publ. P. 9–10. [In Russian]
- **Sozontov A N (2012) Some spider findings from Udmurt Republic which are interesting in a biogeographical aspect** // Proceedings of international conference "Applying and Regional Biogeography". Izhevsk: "Udmurt University" publ. P. 246–251. [In Russian]
- **Sozontov A N (2012) Orb-weaver spiders (Aranei: Araneidae) of the "Nechkinskiy" National Park: taxonomical composition and zoogeographical analysis** // Ecology: Traditions and Innovations. Proceedings of young scientists' conference. Ekaterinburg, Goshitskiy publ. P. 138–141. [In Russian]
- **Sozontov A N**, Roshchinenko V I (2012) **The history and prospects of the study of spiders (Arachnida, Aranei) of Udmurt Republic** // XIV Congress of Russian Entomological Society. Proceedings of the Congress. Saint Petersburg: SPSU publ. P. 406. [In Russian]
- **Sozontov A N (2010) Spiders of the "Nechkinskiy" National Park: species composition, zoogeographical analysis and ecological structure of the fauna** // Proceedings of the 38th student conference. Izhevsk: "Udmurt University" publ. P. 81–82. [In Russian]

EDITORIAL EXPERIENCE

- Marusik Yu M, Sozontov A N, Nekhaeva A A, Mikhailov K G (responsible editors) (2021) Proceedings of the 4th International arachnological conference “ArachnoMeeting”. Moscow: KMK. 52 pp.
- Sokovnina S Yu, Sozontov A N (responsible editors) (2021) Ecology: facts, hypotheses, models. Proceedings of Annual Russian National Conference in Ecology for young scientists. Ekaterinburg: Alpha Print. 206 pp.
- Sokovnina S Yu, Sozontov A N (responsible editors) (2019) Ecology: facts, hypotheses, models. Proceedings of Annual Russian National Conference in Ecology for young scientists. Ekaterinburg: Reaction. 123 pp.
- Sozontov A N (responsible editor) (2017) The conservation of biological diversity and modern zoos: proceedings of the international scientific and practical conference. Moscow–Izhevsk: Institute of Computer Sciences publ. 188 pp.
- Sozontov A N (responsible editor) (2015) A Modern Zoo and Society: proceedings of the international scientific and practical conference. Moscow–Izhevsk: Institute of Computer Sciences publ. 230 pp.
- Roubtsov Yu A et al., (scientific editor Sozontov A N) (2014) Walruses and fur seals in the Zoological park of Udmurtia. Moscow–Izhevsk: Institute of Computer Sciences publ. 234 pp.
- Sozontov A N, Ezhova O V (responsible editors) (2013) 5 years of the State Zoo of Udmurtiya: actuality and prospects. Proceedings of Russian National conference. Izhevsk: UdSU publ. 296 pp.