

# Mindaugas Dagys

## CONTACT INFORMATION

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## EDUCATION AND ACADEMIC DEGREE

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1998–2001 Manchester University, Manchester, UK. Doctor of Philosophy (Environmental Biology), nostrificated in Lithuania in 2002.  
Thesis title: “*Anthropogenic Effects on Populations of Breeding Seabirds in Britain and Ireland: a Ring Recovery Analysis*”, supervisors – Dr Mike Hounsome and Dr Derek Yalden.  
Research area: anthropogenic impacts on seabirds, seabird survival, spatial distribution of seabirds.

1995–1997 Central European University, Budapest, Hungary. Environmental Sciences and Policy, Master of Science.  
Research area: ecology of seabirds, anthropogenic effects on seabirds.

1991–1995 Vilnius University, Vilnius, Lithuania. Biology, Zoology, Bachelor of Science.  
Research area: bird ecology.

## PROFESSIONAL EXPERIENCE

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2017 – until now **Head of Laboratory, Senior Researcher**  
Laboratory of Avian Ecology, Nature Research Centre

2015–2017 **Researcher**  
Paukščių ekologijos laboratorija, Gamtos tyrimų centras

2013–2014 **Junior Researcher**  
Laboratory of Avian Ecology, Nature Research Centre

2010–2013 **Head of Laboratory, Senior Researcher**  
Laboratory of Avian Ecology, Nature Research Centre

2003–2009 **Senior Researcher**  
Laboratory of Avian Ecology, Institute of Ecology of Vilnius University

2003–2008 **Deputy Director for Science and Scientific Research Development**  
Institute of Ecology of Vilnius University

2002–2003 **Researcher**  
Laboratory of Avian Ecology, Institute of Ecology of Vilnius University

1999–2002 **Assistant**  
Laboratory of Avian Ecology, Institute of Ecology

1997–1998	<b>Engineer</b> Laboratory of Ornithology (from 1998 – Laboratory of Avian Ecology), Institute of Ecology
1993–1994	<b>Laboratory Assistant</b> Connecticut College, New London, CT, USA

## RESEARCH INTERESTS

Ecology, anthropogenic impacts, population dynamics, migrations, habitat use on breeding and wintering grounds of seabirds, waterfowl, birds of prey and birds in agricultural landscape. Telemetry research of bird movements – migration, habitat use, flight energetics, using satellite and GPS-GSM bird tracking transmitters. Inventory and monitoring of rare and protected bird species, identification of areas important for birds, planning of bird conservation measures.

## PUBLICATIONS

*Scientific articles published in journals (books), indexed in „Clarivate Analytics Web of Science“ database (with citation index):*

1. Gauld, J.G., Silva, J.P., Atkinson, P.W., Record, P., Acácio, M., Arkumarev, V., Blas, J., Bouten, W., Burton, N., Catry, I., Champagnon, J., Clewley, G.D., **Dagys, M.**, Duriez, O., Exo, K.-M., Fiedler, W., Flack, A., Friedemann, G., Fritz, J., Garcia-Ripolles, C., Garthe, S., Giunchi, D., Grozdanov, A., Harel, R., Humphreys, E.M., Janssen, R., Kölzsch, A., Kulikova, O., Lameris, T.K., López-López, P., Masden, E.A., Monti, F., Nathan, R., Nikolov, S., Oppel, S., Peshev, H., Phipps, L., Pokrovsky, I., Ross-Smith, V.H., Saravia, V., Scragg, E.S., Sforzi, A., Stoykov, E., Thaxter, C., Van Steelant, W., van Toor, M., Vorneweg, B., Waldenström, J., Wikelski, M., Žydelis, R., Franco, A.M.A. 2022. Hotspots in the grid: Avian sensitivity and vulnerability to collision risk from energy infrastructure interactions in Europe and North Africa. *Journal of Applied Ecology*. DOI: <https://doi.org/10.1111/1365-2664.14160>
2. van Toor, M., Kharitonov, S., Švažas, S., **Dagys, M.**, Kleyheeg, E., Muskens, G., Ottosson, U., Žydelis, R., Waldenstrom, J. 2021. Migration distance affects how closely Eurasian wigeons follow spring phenology during migration. *Movement Ecology* 9 (1): 61. DOI: 10.1186/s40462-021-00296-0
3. Virbickas, T., Dementavičius, D., Rumbutis, S., Vaitkuvienė, D., **Dagys, M.**, Treinys, R. 2021. Understanding recreational targets and ecological consequences: increased northern pike stocking reflected in top avian predator diet. *European Journal of Wildlife Research* 67 (1). DOI: 10.1007/s10344-020-01445-3
4. Mirski, P., Cenian, Z., **Dagys, M.**, Daróczy, S., Dementavičius, D., Maciorowski, G., Menderski, S., Nowak, D., Pongrácz, Á., Prommer, M., Sellis, U., Siekiera, J., Szinai, P., Tumił, T., Wójciak, J., Zeitz, R., Väli, Ü. 2020. Sex-, landscape- and climate-dependent patterns of home-range size – a macroscale study on an avian generalist predator. *Ibis* 163 (2): 641–657. <https://doi.org/10.1111/ibi.12894>
5. Dementavičius, D., Rumbutis, S., Virbickas, T., Vaitkuvienė, D., **Dagys, M.**, Treinys, R. 2020. Spatial and temporal variations in the White-tailed Eagle *Haliaeetus albicilla* breeding diet revealed by prey remains. *Bird Study*. DOI: 10.1080/00063657.2020.1808591
6. Kamarauskaitė, A., Dementavičius, D., Skuja, S., **Dagys, M.**, Treinys, R. 2020. Interaction between the White-tailed Eagle and Common Buzzard estimated by diet analysis and brood defence behaviour. *Ornis Fennica* 96: 26–37.
7. Dementavičius, D., Rumbutis, S., Vaitkuvienė, D., **Dagys, M.**, Treinys, R. 2019. No adverse effects on Lesser Spotted Eagle breeding in an area of high White-tailed Eagle density. *Journal of Ornithology* 160(2): 453–461. <https://doi.org/10.1007/s10336-019-01625-2>
8. Pavón-Jordán, D., Clausen, P., **Dagys, M.**, Devos, K., Encarnação, V., Fox, A.D., Frost, T., Gaudard, C., Hornman, M., Keller, V., Langendoen, T., Ławicki, Ł., Lewis, L.J., Lorentsen, S.-H., Luigujoe, L., Meissner, W., Molina, B., Musil, P., Musilova, Z., Nilsson, L., Paquet, J.-Y.,

- Ridzon, J., Stipniece, A., Teufelbauer, N., Wahl, J., Zenatello, M., Lehtikoinen, A. 2018. Habitat- and species-mediated short- and long-term distributional changes in waterbird abundance linked to variation in European winter weather. *Diversity and Distributions*. DOI: 10.1111/ddi.12855.
9. Väli, Ü., Mirski, P., Sellis, U., **Dagys, M.**, Maciorowski, G. 2018. Genetic determination of migration strategies in large soaring birds: evidence from hybrid eagles. *Proc. R. Soc. B* 285: 20180855. <https://doi.org/10.1098/rspb.2018.0855>.
  10. Giakoumi, S., Hermoso, V., Carvalho, S.B., Markantonatou, V., **Dagys, M.**, Iwamura, T., Probst, W.N., Smith, R.J., Yates, K.L., Almpantidou, C., Novak, T., Ben-Moshe, N., Katsanevakis, S., Claudet, J., Coll, M., Deidun, A., Essl, F., García-Charton, J.A., Jimenez, C., Kark, S., Mandić, M., Mazaris, A.D., Rabitsch, W., Stelzenmüller, V., Tricarico, E., Vogitzakis, I.N. 2018. Conserving European biodiversity across realms. *Conservation Letters*. DOI: 10.1111/conl.12586.
  11. Matulevičiūtė, D., Motiejūnaitė, J., Uogintas, D., Taraškevičius, R., **Dagys, M.**, Rašomavičius, V. 2018. Decline of a protected coastal pine forest under impact of a colony of great cormorants and the rate of vegetation change under ornithogenic influence. *Silva Fennica* 52 (2): article id 7699.
  12. Grašytė, G., Rumbutis, S., **Dagys, M.**, Vaitkuvienė, D., Treinys, R. 2017. Tawny Owl females of intermediate colour morph reproduce better and increase in a local polymorphic population. *Ornis Fennica* 94: 33–44.
  13. Rumbutis, S., Vaitkuvienė, D., Grašytė, G., **Dagys, M.**, Dementavičius, D., Treinys, R. 2017. Adaptive habitat preferences in the Tawny Owl *Strix aluco*. *Bird Study* 64(3): 421–430. <https://doi.org/10.1080/00063657.2017.1369001>.
  14. Grašytė, G., Rumbutis, S., **Dagys, M.**, Treinys, R. 2016. Breeding Performance, Apparent Survival, Nesting Location and Diet in a Local Population of the Tawny Owl *Strix aluco* in Central Lithuania Over the Long-Term. *Acta Ornithologica* 51(2): 163–174.
  15. Treinys, R., Dementavičius, D., Rumbutis, S., Švažas, S., Butkauskas, D., Sruoga, A., **Dagys, M.** 2015. Settlement, habitat preference, reproduction, and genetic diversity in the recovering white-tailed eagle *Haliaeetus albicilla* population. *Journal of Ornithology* 157: 311–323.
  16. Pavón-Jordán, D., Fox, A.D., Clausen, P., **Dagys, M.**, Deceuninck, B., Devos, K., Hearn, R.D., Holt, C.A., Hornman, M., Keller, V., Langendoen, T., Ławicki, Ł., Lorentsen, S.H., Luigujõe, L., Meissner, W., Musil, P., Nilsson, L., Paquet, J.-Y., Stipniece, A., Stroud, D.A., Wahl, J., Zenatello, M., Lehtikoinen, A. 2015. Climate-driven changes in winter abundance of a migratory waterbird in relation to EU protected areas. *Diversity and Distributions* 21: 571–582.
  17. Vaitkuvienė, D., Dagys, M. 2015. Two-fold increase in White Stork (*Ciconia ciconia*) population in Lithuania: a consequence of changing agriculture? *Turkish Journal of Zoology* 39: 144–152.
  18. Vaitkuvienė, D., **Dagys, M.**, Bartkevičienė, G., Romanovskaja, D. 2015. The effect of weather variables on the White Stork (*Ciconia ciconia*) spring migration phenology. *Ornis Fennica* 92: 43–52.
  19. Motiejūnaitė, J., Iršėnaitė, R., Adamonytė, G., **Dagys, M.**, Taraškevičius, R., Matulevičiūtė, D., Koreivienė, J. 2014. Pine forest lichens under eutrophication generated by a great cormorant colony. *The Lichenologist* 46: 213–228.
  20. Žydelis, R., Bellebaum, J., Österblom, H., Vetemaa, M., Schirmeister, B., Stipniece, A., **Dagys, M.**, van Erden, M., Garthe, S. 2009. Bycatch in gillnet fisheries – An overlooked threat to waterbird populations. *Biological Conservation* 142: 1269–1281.

*Scientific articles published in journals (books), indexed in „Clarivate Analytics Web of Science“ database (without citation index):*

1. Vaitkuvienė, D., **Dagys, M.** 2014. Possible effects of electromagnetic field on White Storks *Ciconia ciconia* breeding on low-voltage electricity line poles. *Zoology and Ecology* 24 (4): 289–296.
2. Žydelis, R., **Dagys, M.**, Vaitkus, G. 2006. Beached bird surveys in Lithuania reflect marine oil pollution and bird mortality in fishing nets. *Marine Ornithology* 34: 161–166.
3. **Dagys, M.**, Žydelis, R. 2002. Bird bycatch in fishing nets in Lithuanian coastal waters in wintering seasons 2001–2002. *Acta Zoologica Lituanica* 12: 276–282.
4. Švažas, S., **Dagys, M.**, Žydelis, R., Raudonikis, L. 2001. Changes in numbers and distribution of wintering waterfowl populations in Lithuania in the 20th century. *Acta Zoologica Lituanica* 11: 243–254.
5. Švažas, S., Patapavicius, R., **Dagys, M.** 2001. Recent changes in distribution of waterfowl established on the basis of Lithuanian ringing recoveries. *Acta Zoologica Lituanica* 11: 235–242.

***Reviewed scientific articles, published in Lithuania:***

1. **Dagys, M.** 1997. Possible impact of gill net fishing on wintering birds in Lithuanian inshore waters of the Baltic Sea. *Acta Zoologica Lituanica, Ornithologica* 6: 112–117.
2. Žydelis, R., **Dagys, M.** 1997. Winter period ornithological impact assessment of oil related activities and sea transportation in Lithuanian inshore waters of the Baltic Sea and in the Kursiu Lagoon. *Acta Zoologica Lituanica, Ornithologica* 6: 45–65.
3. Vaitkus, G., **Dagys, M.**, Žydelis, R., Kolesinskas, T. 1993. Preliminary report on winter-period beached bird densities in the Lithuanian coastal areas. *Acta Ornithologica Lituanica* 7–8: 68–73.

**PARTICIPATION IN INTERNATIONAL AND NATIONAL SCIENTIFIC PROGRAMMES AND PROJECTS**

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2022–2023	Determination of the dynamics of the abundance and distribution of wintering seabirds in 2022/2023, and evaluation of the obtained results. Environmental Protection Agency. Project leader.
2021–2022	Determination of the dynamics of the abundance and distribution of wintering seabirds in 2020/2021, and evaluation of the obtained results. Environmental Protection Agency. Project leader.
2020–2022	Post-doctoral research project „Exoerythrocytic development of hemosporidian parasites in birds of prey“, post-doctoral student – Mikas Ilgūnas. Research Council of Lithuania. Project supervisor.
2017–2020	Phosphorus as driver of Cyanobacterial HYperblooms in the Curonian Lagoon (PatCHY). Klaipėda University. Research Council of Lithuania. Project participant.
2016–2020	COST veikla CA15121 „Advancing marine conservation in the European and contiguous seas (MarCons)“. Representative of Lithuania, Action participant.
2014–2016	Sustainable Development of Wind Power in West Lithuania (DAVEP-VLIT). European Economic Area Financial Mechanism. Project leader.
2014–2015	Strengthening the environmental protection management of the Baltic Sea of Lithuania. KU JMTC/Environmental Protection Agency. Project participant.
2011–2014	Preparation of documents for the strengthening of management of environmental protection of the Baltic Sea in Lithuania. KU BPATPI/Environmental Protection Agency. Project participant.

- 2010–2015 Inventory of marine species and habitats for development of Natura 2000 network in the offshore waters of Lithuania (DENOFLIT). KU BPATPI/ ES LIFE+ program. Action leader.
- 2010–2011 Changes in biotic and abiotic ecosystem components, brought about by an invasive species – a case of the great cormorant. Research Council of Lithuania. Project participant.
- 2009–2013 White Stork (*Ciconia ciconia*) conservation in Lithuania. Lithuanian Ornithological Society/ ES LIFE+ program. Action leader.
- 2007 COST action 635 “INTRACAFE: Interdisciplinary initiative to reduce pan-European cormorant-fisheries conflicts”. TPA. Project leader (Lithuania).
- 2006–2007 Program for the translocation of White Stork nests from overhead electricity line pylons and for protection of electric wires from the impact of White Storks. Ministry of Environment, AB “Rytų skirstomieji tinklai”, AB VST. Project leader.
- 2006 COST action 635 “INTRACAFE: Interdisciplinary initiative to reduce pan-European cormorant-fisheries conflicts”. VMSF. Project leader (Lithuania).
- 2005–2009 Marine Protected Areas in the Eastern Baltic Sea (Baltic MPAs). BEF – Latvia/ EU LIFE-Nature program. Action leader.
- 2005–2008 Natura 2000 site conservation and management on the Lithuanian coast. Ecological Club Žvejone/ EU LIFE-Nature program. Action leader.
- 2005–2008 COST action 635 “INTRACAFE: Interdisciplinary initiative to reduce pan-European cormorant-fisheries conflicts”. Centre for Ecology & Hydrology – UK/EU COST program. Action participant.
- 2005 Protection of endangered species of flora and fauna and their habitats through implementation of CITES and the Bern and Bonn Conventions and the related EU legislation. PHARE. Procurement expert.
- 2005 Preparation of a program for the establishment of Capercaillie breeding centre and Capercaillie reintroduction in Karsuva Forest. GPF. Project leader.
- 2004 Monitoring of wintering waterbirds (2004). Environmental Protection Agency. Project leader.
- 2003–2004 Protection and management of important bird areas, included in the Natura 2000 network in Lithuanian coastal waters of the Baltic Sea. GEF Small grants programme. Project coordinator.
- 2003 Monitoring of wintering waterbirds (2003). Environmental Protection Agency. Project leader.
- 2001–2002 Reducing the impact of fishing on wintering and migrating waterbirds in Lithuanian coastal waters of the Baltic Sea. GEF Small grants programme. Project leader.
- 2001–2002 Important transboundary wetlands of Lithuania, Belarus, and Kaliningrad District of Russia. OMPO, France. Project leader.

## **PARTICIPATION IN THE STUDY PROCESS**

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### ***Supervision of PhD students:***

Field of science: *Biomedical Sciences*. Branch of science: *Ecology and Environmental Science (03 B)*

**Daiva** Disertacijos tema: „Abundance and Spatial Distribution, Breeding 2009–2014  
**Vaitkuviene** Habitat Selection, Breeding Success and Spring Arrival of the

White Stork *Ciconia ciconia* in the North-Western Periphery of the Range“

*Supervision of post-doctoral students:*

**Mikas** Post-doctoral research title: „Exoerythrocytic development of 2020–2022  
**Ilgūnas** hemosporidian parasites in birds of prey“

**OTHER**

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1. Raudonikis, L., Riauba, G., Brazaitis, G., Čerkauskas, A., **Dagys, M.**, Morkūnas, J., Pakštytė, E., Pranaitis, A., Preikša, Ž., Skuja, S., Stanevičius, V., Vaitkuvienė, D. 2016. Europos Bendrijos svarbos paukščių rūšių monitoringo metodikos. Vilnius, Lietuvos ornitologų draugija, Valstybinė saugomų teritorijų tarnyba prie Aplinkos ministerijos.
2. Baranauskas, K., **Dagys, M.**, Gudžinskas, Z., Iržėnaitė, R., Ivinskis, P., Jukonienė, I., Juškaitis, R., Kesminas, V., Kutorga, E., Matulevičiūtė, D., Motiejūnaitė, J., Patalauskaitė, D., Rašomavičius V., Rimšaitė, J., Sinkevičienė, Z., Uogintas, D. 2015. Lietuvos griezštai saugomos rūšys. Vilnius, Lietuvos Respublikos Aplinkos ministerija.
3. **Dagys, M.**, Vaitkuvienė, D. 2013. Baltasis gandras Lietuvoje. Lizdų atlasas. Vilnius: Petro ofsetas.
4. Skov, H., Heinänen, S., Žydelis, R., Bellebaum, J., Bzoma, S., **Dagys, M.**, Durinck, J., Garthe, S., Grishanov, G., Hario, M., Kieckbusch, J.J., Kube, J., Kuresoo, A., Larison, K., Luigujoe, L., Meissner, W., Nehls, H.W., Nilsson, L., Petersen, I.K., Roos, M.M., Pihl, S., Sonntag, N., Stock, A., Stipniece, A., Wahl, J. 2011. Waterbird Populations and Pressures in the Baltic Sea. Copenhagen: Nordic Council of Ministers. 201 p.
5. Raudonikis, L., Stanevičius, V., Brazaitis, G., Sorokaitė, J., Treinys, R., **Dagys, M.**, Dementavičius, D. 2006. Europos Bendrijos svarbos gyvūnų rūšių monitoringo metodikos. Paukščiai. Vilnius: Valstybinė saugomų teritorijų tarnyba, Vilniaus universiteto Ekologijos institutas.