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SOCIAL MEDIA



@PotierSimon1



Simon Potier -
Expert scientifique



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HOBBIES



SIMON POTIER

POSITION

2021 - now

Self-employed scientific and falconry expert.

EDUCATION

2018 - 2020

Postdoc position in biology
University of Lund, Vision Group, Sweden.
Thesis: Vision and foraging in raptors
Supervisor: Almut Kelber

2017

Postdoc position in biology
University of Lund, Vision Group, Sweden.
Thesis: Vision in diurnal raptors
Supervisor: Almut Kelber

2013 - 2016

PhD position in biology
University of Montpellier / Center for Functional and Evolutionary Ecology, France.
Thesis: Sensory Ecology of Raptors: Vision & Olfaction.
Supervisors: Francesco Bonadonna & Olivier Duriez

2012

M.Sc. Degree in Biodiversity, Ecology & Evolution
University of Toulouse, France.

2010

B.Sc. Degree in Biology of Organisms
University of Rennes 1, Rennes, France

PEER REVIEWED PUBLICATIONS

McClure CJW., **Potier S.** & Barber JR. 2022. Applied studies or raptor sensory ecology are rare. Journal of Raptor Research.

Potier S. 2020. Visual adaptations in predatory and scavenging diurnal raptors. *Diversity*. 12(10): 400.

Potier S., Mitkus M. & Kelber A. 2020. Visual adaptations of diurnal and nocturnal raptors. In: Seminars in Cell & Developmental Biology. Academic Press.

Potier S., Mitkus M., Lisney T.J., Isard P-F., Dulaurent T., Mentek M., Cornette R., Schikorski D. & Kelber A. 2020. Inter-individual differences in foveal shape in a scavenging raptor, the black kite *Milvus migrans*. *Scientific reports*. 10: 6133.

Lisney T.J., **Potier S.**, Isard P-F., Mentek M., Mitkus M. & Collin S.P. 2020. Retinal topography in two species of flamingo (Phoenicopteriformes: Phoenicopteridae). *Journal of Comparative Neurology*. 1-16.

Potier S., Lieuvin M., Pfaff M. & Kelber A. 2020. How fast can raptors see? *Journal of Experimental Biology*. 223: jeb209031.

Potier S. 2019. Olfaction in raptors. *Zoological Journal of the Linnean Society*. zlz121.

Potier S., Duriez O., Célérier A., Liegeois J-L. & Bonadonna F. 2019. Sight or smell: which senses do scavenging raptors use to find food? *Animal Cognition* 22(1): 49-59.

Potier S., Mitkus M. & Kelber A. 2018. High resolution of colour vision, but low contrast sensitivity in a diurnal raptor. *Proceedings of the Royal Society B* 285: 20181036.

Potier S., Duriez O., Cunningham G.B., Bonhomme V., O'Rourke C., Fernández-Juricic E. & Bonadonna F. 2018. Visual field shape and foraging ecology in diurnal raptors. *Journal of Experimental Biology*. 221: jeb177295.

Potier S., Besnard M.M., Schikorski D., Buatois B., Duriez O., Gabirot M., Leclaire S. & Bonadonna F. 2018. Preen oil chemical composition encodes individuality, seasonal variation and kinship in Black kites *Milvus migrans*. *Journal of Avian Biology*. e01728.

Potier S.#, Mitkus M.#, Bonadonna F., Duriez O., Isard P-F., Dulaurent T., Mentek, M. & Kelber A. 2017. Eye size, fovea and foraging ecology in accipitriform raptors. (# Equal contribution of authors). *Brain, Behavior and Evolution*, 90: 232-242.

Potier S., Bonadonna F., Martin G.R., Isard P-F., Dulaurent T., Mentek, M. & Duriez O. 2017. Visual field and foveal characteristics of two species of Falconidae with different ecology. *Ibis*, 160: 54-61.

Potier S., Bonadonna F., Kelber A., Martin G. R., Isard P-F., Dulaurent T. & Duriez O. 2016. Visual abilities in two raptors with different ecology. *Journal of Experimental Biology*, 219: 2639-2649.

Potier S., Bonadonna F., Kelber A. & Duriez O. 2016. Visual acuity in an opportunistic raptor, the chimango caracara (*Milvago chimango*). *Physiology & Behavior*, 157: 125-128.

Potier S., Carpentier A., Grémillet D., Leroy B. & Lescroël A. 2015. Individual repeatability of foraging behaviour in a marine predator, the great cormorant, *Phalacrocorax carbo*. *Animal Behaviour*, 103: 83-90.

Pétillon J., **Potier S.**, Carpentier A. & Garbutt A. 2014. Evaluating the success of managed realignment for the restoration of salt marshes: lessons from invertebrate communities. *Ecological Engineering*, 69: 70-75.

BOOK CHAPTERS

Mitkus M., **Potier S.**, Martin G.R., Duriez O. & Kelber A. 2018. Raptor Vision. Oxford Research Encyclopedia of Neuroscience.

Bertin A., **Potier S.** & Bonadonna F. 2016. L'olfaction chez les oiseaux. La lettre des neurosciences.

AWARDS AND GRANTS

2020	Grant from Engie Green France to study raptor collision and vision
2019	Travelling fellowship from The Company of Biologists
2018	Grant from Stiftelsen MB
2018	Endowments for Young Researchers - Postdoctoral Fellows - The Royal Physiographic Society of Lund
2017	Endowments for the Natural Sciences, Medicine and Technology, Biology - The Royal Physiographic Society of Lund
2013	Grant from AFdPZ (Association Française des Parcs Zoologiques) to study raptor sensory ecology as a PhD student

ORAL COMMUNICATIONS

2022 - Potier S. Spatial and temporal resolution in birds: special consideration to raptors. – International Ornithological Virtual Congress 2022, Durban, South Africa.

2020 – Potier S. How does a raptor sense the environment? – International Vulture Program Conference – Hawk Conservancy Trust

2019 – Potier S. Impact de la lumière artificielle sur les rapaces - Réunion Annuelle des Voleries – Zoo de la Boissière du Doré

2019 – Potier S., Duriez O., Bonadonna F. & Kelber A. - Vision, foraging and collision in raptors – European Vulture Conference – Albufeira, Portugal

2019 – Potier S. Écologie sensorielle des rapaces et bien-être - Réunion Annuelle de l'Association Francophone des Soigneurs Animaliers

2018 – Potier S. Understanding the sensory ecology of raptors: an essential collaboration between scientists and falconers – Annual meeting of the raptor research foundation – Kruger Park, South Africa

2018 – Potier S. Capacités sensorielles des rapaces – ICES Nantes

2017 – Potier S. Qu'est-ce qu'un rapace et quelles sont ses capacités sensorielles ? – Muséum d'Histoire Naturelle de Toulouse

2017 – Potier S. L'utilité des études scientifiques pour les voleries : le cas des études sensorielles. Réunion Annuelle des Voleries – Zoo de la Bourbansais

2017 – Duriez O., Angelier F. & Potier S. Projet d'étude : Impact du stress chez les rapaces. Réunion Annuelle des Voleries – Zoo de la Bourbansais

2016 – Potier S. La fauconnerie et la science : une collaboration fructueuse et nécessaire aux deux parties - Réunion Annuelle des Voleries - Le ZooParc de Beauval

2016 – Potier S., Besnard M.M., Schikorski D., Buatois B., Duriez O., Leclaire S. & Bonadonna F. Existe-t-il une communication chimique chez les rapaces ? - Réunion Annuelle des Voleries - Le ZooParc de Beauval

2016 – Potier S., Duriez O. & Bonadonna F. Ecologie Sensorielle des Rapaces : Vision et Olfaction – Groupe Vautours France – Jaugac

2015 - Potier S., Duriez O. & Bonadonna F. Ecologie Sensorielle des Rapaces : Vision et Olfaction (Partie III) - Réunion Annuelle des Voleries - Le Grand Parc du Puy du Fou

2015 - Potier S., Bonadonna F., Kelber A., Martin G. R., Isard P-F., Dulaurent T. & Duriez O. Vision in two raptors: Visual acuity, visual field and foveal depth - European Ornithologists' Union (EOU2015) - Badajoz

2014 - Potier S., Duriez O. & Bonadonna F. Ecologie Sensorielle des Rapaces : Vision et Olfaction (Partie II) - Réunion Annuelle des Voleries - Le Zoo d'Amnéville

2014 - Potier S., Duriez O. & Bonadonna F. Ecologie Sensorielle des Rapaces : Vision et Olfaction - Assemblée Générale Extraordinaire 2014 de l'AFdPZ - Parc Animalier de Sainte Croix

2013 - Potier S., Duriez O. & Bonadonna F. Ecologie Sensorielle des Rapaces : Vision et Olfaction (Partie I) - Réunion Annuelle des Voleries - Le Parc des Oiseaux

POSTERS

2018 - Potier S., Mitkus M. and Kelber A. High resolution of colour vision, but low contrast sensitivity in a diurnal raptor - Annual meeting of the raptor research foundation - Kruger Park, South Africa

2018 - Potier S. and Kelber A. Through the hawk's eye. How is vision related to foraging in Harris's hawk *Parabuteo unicinctus*? - International congress of Neuroethology - Brisbane, Australia

2015 - Potier S., Bonadonna F., Kelber A., Martin G.R., Isard P-F., Cunningham G.B. and Duriez O. Vision in two raptors: visual acuity, foveal depth and visual field - European Ornithologists' Union (EOU2015) - Badajoz

2015 - Potier S., Duriez O., Célerier A., Liegeois J-L. and Bonadonna F. Testing olfactory ability to search food in raptors: First experimental evidence - European Ornithologists' Union (EOU2015) - Badajoz

2014 - Potier S., Bonadonna F., Kelber A. and Duriez O. The visual acuity of Harris's Hawk *Parabuteo unicinctus*: Individual differences - Sensory Ecology Courses - Lund

SCIENTIFIC REVIEWER

Journal of Experimental Biology, Biology Letters, Animal Behaviour, Royal Society Open Science, Ecology and Evolution, Journal of Avian Biology, Global Ecology and Conservation, PloS ONE, Behavioral Ecology and Sociobiology, The Wilson Journal of Ornithology, Journal of Herpetology

STUDENT SUPERVISION

2022 - Elise Dussauze, Scholarship student at the CEFE/CNRS. Perception of rotation by birds. Co-supervised with Olivier Duriez, Francesco Bonadonna and Constance Blary.

2020-2023 - Constance Blary, PhD position at Montpellier University. Vision and bird collision. Co-supervised with Olivier Duriez and Francesco Bonadonna

2018 - Margaux Lieuvin, Scholarship student at the University of Lund. Temporal resolution of vision in raptors. Co-supervised with Almut Kelber.

2016 - Malicia Besnard, Student at the Ecole Pratique des Hautes Etudes (EPHE), France. Preen oil olfactory signature in Black Kites *Milvus migrans*. Co-supervised with Francesco Bonadonna & Sarah Leclaire.

IN THE MEDIA

2020 - A l'écoute de la nature : le fou volant. ARTE

2018 - Journal du 19/12/18. France 3

2017 - Oeil pour oeil. Ushuaïa TV

2017 - Nos cinq sens. Canal +

2016 - Défi : Voir comme un hibou. On n'est pas que des cobayes, France 5

MEMBERSHIP

Association Française des Parcs Zoologiques (AFdPZ) as an expert in the research committee.

International Union for Conservation of Nature (IUCN) in the SUME group.

International Association for Falconry (IAF) as an expert in the research and conservation committee.

Association des Voleries Mobiles (AVM).

ANALYSIS

Data sampling	Luxmeter, Chromatography-Mass-Spectrometry (GCMS), Visual field, behavioural experiments (conditioning, exploration, flight behaviour), GPS, Accelerometer, Transmitter
Image analysis	Morphometry, Optical Coherence Tomography
Statistics	Classical tests (t-test, M/ANOVA, PCA), linear, non-linear & multiple regression analysis, repeatability, Generalized Linear Mixed Models (GLMM), Phylogenetic Generalized Least Squares (PGLS), time series analyses, Multivariable non-normal non-balanced (PERMANOVA, ANOSIM), Psychometric Functions, Contrast Sensitivity Function (CSF)

SOFTWARE

Microsoft office, R (Rstudio), MatLab, Adobe office (illustrator, photoshop, indesign, dreamweaver), ImageJ, SoViewer

