# Summary Curriculum Vitae: Dr. Gareth John Dyke

**Date of Birth:** 26th January 1976

# Present Position:

2011- **Associate Professor**

Ocean and Earth Science (National Oceanography Centre), University of Southampton, Waterfront Campus, European Way, Southampton SO14 3ZH UK.

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**Full list of publications:** [www.southampton.ac.uk/oes/about/staff/gjd1n10.page#publications](http://www.southampton.ac.uk/oes/about/staff/gjd1n10.page#publications)

# Other Current Positions:

2015- **Associate Professor**, University of Debrecen (Hungary)

2002- **Research Associate**, American Museum of Natural History, New York (USA). 2003- **Research Associate**, National Museum of Ireland, Dublin (Ireland).

# Previous Positions:

2008-2011 **Senior Lecturer** in Vertebrate Zoology*,* University College Dublin, Ireland. 2002-2008 **College Lecturer**, University College Dublin, Ireland.

2000-2002 **Postdoctoral Fellow**, American Museum of Natural History, New York.

**Qualifications:** PhD Univ. of Bristol (2000). BSc Geology & Biology (First), Univ. of Bristol 1997.

**Languages:** English (Native); French (Working proficiency); Hungarian (Limited working proficiency).

**Research Activities:** I am a vertebrate palaeontologist with research interests in the evolution of birds, their dinosaurian relatives, and the development and refinement of flight and aerodynamics. I led a research group (2002-2011) at University College Dublin, Ireland (seven PhD, seven research MSc students and two full-time postdoctoral researchers) and moved to the University of Southampton (UK) in 2011 where I lead a dynamic and expanding research team (13 PhD students and 10 MSc students and associated researchers). My expertise lie in functional biology, biomechanics and experimental aerodynamics. I conduct annual palaeontological field expeditions (in the last three years in Romania, Kazakhstan, Russia, western Canada and Morocco). I have published more than 150 peer-reviewed technical papers many in leading journals (*Nature*, *Science*, *Geology, Evolution, Annual Reviews of Ecology and Systematics*, *Trends in Ecology and Evolution*, *Journal of Evolutionary Biology*, *Journal of Zoology*, *Cladistics*, *Proceedings of the Royal Society*). I have numerous peer- reviewed conference abstracts, book reviews, invited contributions and book chapters and have recently co-edited a book of contributed chapters that deal with the evolution of modern birds (*Living Dinosaurs: The Evolution of Modern Birds,* Wiley Blackwell, May 2011) and a set of conference papers from a co-organised symposium at a 2009 conference (*Journal of Systematic Palaeontology*, January 2011). Published in 2013, I was the English text editor of the Indiana University Press volume *Fossils of the Carpathian Region* (translated from Hungarian) while based on sabattical at the Hungarian Natural History Museum, Budapest (2010-2011). Since 2004, I have won more than €1,700,000 ($1,950,000) in funding (Irish Government, European Union, National Science Foundation USA), including significant donations from private individuals and corporate sponsors for my palaeontological fieldwork projects. I am the Editor-in-Chief of *Historical Biology* (Taylor & Francis, since 2005) and serve on editorial boards for three other high-profile international scientific journals.

# Current and Recent Research Funding:

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| 2015 | National Geographic Society, Giant pterosaurs from Transylvania, £12,000 |
| 2014 | Hungarian Academy of Sciences, Visiting Researcher Fund, £35,000 |
| 2013 | National Geographic Society – *In the footsteps of the dinosaur baron Nopcsa*, £9,000 |
| 2012 | Southampton PI, EPSRC Bridging the Gap – *Aerodynamics of dinosaurs*, £16,244 |

2011 Dublin PI - LifePathWorks*: Exploration of galliform osteology and phylogenetics*,

€15,000.

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| 2010-2011 | Dublin PI - SensComm Ireland Inc.: *Exploration palaeontology in Kazakhstan*, €60,000 |
| 2009-2010 | Dublin PI - UCD Seed Funding: *Vertebrate palaeontology of the Cretaceous Kem Kem* |
|  | *beds, Morocco*, €9,120 |
| 2006-2009 | Dublin PI – Science Foundation Ireland (SFI) *Undergraduate Research and Knowledge* |
|  | *Award* (UREKA) site with the National Museum (Natural History), €199,000 |
| 2007 | Dublin PI - UCD Seed Funding: *Using feather microanatomy to reconstruct the higher-* |
|  | *level relationships of birds*, €14,500 |
| 2005 | Dublin PI – Intune Technologies: *Dinosaurs of Kazakhstan*, €20,000 |
| 2005-2009 | Dublin PI - Science Foundation Ireland (SFI) basic research grant: *Anatomy and* |
|  | *systematics of galliform birds*, €85,000 |
| 2004-2007 | Dublin PI – Science Foundation Ireland (SFI) *Undergraduate Research and Knowledge* |
|  | *Award* (UREKA) site with the National Museum (Natural History), €199,000 |
| 2004 | Dublin PI -- Science Foundation Ireland (SFI) basic research grant: *Fossil birds from the* |
|  | *Eocene of Denmark and the early diversification of Neornithes*, €110,000 |
| 2004 | Dublin co-PI – National Science Foundation (NSF): *The early evolutionary radiation of* |
|  | *modern birds: new evidence from the Lower Eocene of Denmark*, €95,000 |

# Key recent Publications (2014-15) (publishes ca. 10 papers per year, H index: 28):

**Dyke, G.** et al. (2015) *Thalassodromeus sebesensis* - a new name for an old turtle. Comment on "*Thalassodromeus sebesensis*, an out of place and out of time Gondwanan tapejarid pterosaur", Grellet-Tinner and Codrea (online July 2014 DOI 10.1016/j.gr.2014.06.002). Gondwana Research, 27, 1680-1682. (doi:10.1016/j.gr.2014.08.004).

Averianov, A., **Dyke, G.**, Danilov, I. and Skutschas, P. (2015) The paleoenvironments of azhdarchid pterosaurs localities in the Late Cretaceous of Kazakhstan. ZooKeys, 483, 59-80. (doi:10.3897/zookeys.483.9058).

Averianov, Alexander O., Archibald, J. David, Skutschas, Pavel P. and **Dyke, G.** (2014) New mammal remains from the Late Cretaceous Bostobe Formation (Northeast Aral Sea Region, Kazakhstan). Palaeoworld, 23, 314-320. (doi:10.1016/j.palwor.2014.10.009).

Laurent, Christian, Palmer, Colin, Boardman, Richard P., **Dyke, G.** and Cook, Richard (2014) Nanomechanical properties of bird feather rachises: exploring naturally occurring fibre reinforced laminar composites. Journal of The Royal Society Interface, 11, (101), 20140961. (doi:10.1098/rsif.2014.0961).

Lefèvre, Ulysse, Hu, Dongyu, Escuillié, François, **Dyke, G.** and Godefroit, Pascal (2014) A new long- tailed basal bird from the Early Cretaceous of northeastern China. Biological Journal of the Linnean Society, 113, (3), 790-804. (doi:10.1111/bij.12343).

Averianov, Alexander, Archibald, J. David and Dyke, Gareth J. (2014) A new eutherian mammal from the Late Cretaceous of Kazakhstan. Acta Palaeontologica Polonica, 59, (3), 537-542. (doi:10.4202/app.2011.0143).

Lee, Michael S.Y., Cau, Andrea, Naish, Darren and **Dyke, G.** (2014) Sustained miniaturization and anatomical innovation in the dinosaurian ancestors of birds. Science, 345, (6196), 562-566.

Clucas, G.V., **Dyke, G.J.,** et al. (2014) A reversal of fortunes: climate change ‘winners’ and ‘losers’ in Antarctic Peninsula penguins. Scientific Reports, 4, (5024).

Franklin, Oliver, Palmer, Colin and **Dyke, G.** (2014) Pectoral fin morphology of batoid fishes (Chondrichthyes: Batoidea): explaining phylogenetic variation with geometric morphometrics. Journal of Morphology (doi:10.1002/jmor.20294).

Lee, M.S.Y., Cau, A., Naish, D. and **Dyke, G.** (2014) Morphological clocks in palaeontology, and a mid-Cretaceous origin of crown Aves. Systematic Biology, 63, (3), 442-449.

Lindgren, J., **Dyke, G** et al. (2014) Skin pigmentation provides evidence of convergent melanism in extinct marine reptiles. Nature, 506, 484-488.