

# Gytis Dudas

## Curriculum Vitae

Institute of Biotechnology,  
Life Sciences Center,  
Vilnius University  
Saulėtekio al. 7, LT-10257,  
Vilnius, Lithuania  
✉ [gytis.dudas@gmc.vu.lt](mailto:gytis.dudas@gmc.vu.lt)  
🌐 [Personal website](#)

### Postgraduate career

- 2024– research professor / group leader, *Life Sciences Centre (Institute of Biotechnology), University of Vilnius*, Vilnius, Lithuania.
- 2021–2024 senior researcher / group leader, *Life Sciences Centre (Institute of Biotechnology), University of Vilnius*, Vilnius, Lithuania.
- 2020– remote consultant, *Ring Therapeutics*, Cambridge, MA, USA.
- 2018–2024 remote consultant, *CZ Biohub*, San Francisco, CA, USA.
- 2018–2023 remote consultant, *The Scripps Research Institute*, San Diego, CA, USA.
- 2016–2018 postdoctoral fellow, *Fred Hutchinson Cancer Research Center*, Seattle, WA, USA, Mentor: Trevor Bedford.

### Education

- 2011–2016 PhD, “Inference of Evolutionary and Ecological Processes from Reticulate Evolution in RNA Viruses”, *University of Edinburgh*, Edinburgh, UK.  
Supervisor: Prof. Andrew Rambaut, secondary supervisor: Prof. Andrew Leigh-Brown;  
Thesis examiners: Prof. Oliver G Pybus, Prof. Paul Sharp.
- 2007–2011 BSc, Biological Sciences with Honours in Evolutionary Biology, *University of Edinburgh*, Edinburgh, UK.  
First Class, Ashworth Prize and Class Medal

### Publications

- 2025 49. Bollen N, Hong S, Potter B, ..., Peeters M, Behillil S, Simon-Lorière E, Hoelzer M, Dellicour S, **Dudas G**, Baele G, *Tracking down the origin and subsequent spread of SARS-CoV-2 lineage B.1.619*, *Virus Evolution* (in press).
- 2025 preprint **Blagnytė I**, Markevičiūtė J, **Dudas G**, *Phylogeographic analysis of Influenza D virus evolution*, *bioRxiv* 2025.09.19.677308.
- 2025 48. Baele G, Carvalho LM, Brusselmans M, **Dudas G**, Ji X, McCrone JT, Lemey P, Suchard MA, Rambaut A, *HIPSTR: highest independent posterior subtree reconstruction in TreeAnnotator X*, *Bioinformatics*: btaf488.
- 2025 preprint Pausch P, Jasnauskaitė M, Juozapaitis J, Liegutė T, Grigaitis R, Skorupskaitė A, Steinchen W, Mikšys A, Truncaitė L, Kazlauskaitė K, Torres Jiménez MF, Khochare S, **Dudas G**, Bange G, Malinauskaitė L, Songailienė I, *Retron Eco2 breaks tRNAs for anti-phage defense*, *Research Square*, doi: <https://doi.org/10.21203/rs.3.rs-7196019/v1>.

- 2025 preprint **Smičius M**, Olendraitė I, Bačelis J, Šimaitis A, **Gabrielaitė M**, ... **Norkienė M**, ..., **Dudas G**, *Anthropozoonotic spillovers reveal sustained long-term cryptic circulation of SARS-CoV-2 within and between Lithuanian mink farms*, medRxiv 2025.07.15.25331253.
- 2025 47. Peacock T, Moncla L, **Dudas G**, Lloyd-Smith JO, Worobey M, Lowen A, Nelson MI, *The global H5N1 panzootic in mammals*, Nature 637, 304–313.
- 2025 46. Rehman Z, Edington K, Jamal Z, Kritz-Wilson A, **Dudas G**, Sims S, Myers R, Afrough B, Inamdar L, Haider SA, Ikram A, Salman M, Umair M, *The introduction of the SARS-CoV-2 BA.4 lineage into Pakistan*, Archives of Virology 170(2), 26.
- 2024 45. Brusselmans M, Carvalho LM, Hong SL, Gao J, Matsen IV FA, Rambaut A, Lemey P, Suchard MA, **Dudas G**, Baele G, *On the importance of assessing topological convergence in Bayesian phylogenetic inference*, Virus Evolution: veae081.
- 2024 44. Holtz A, Van Weyenbergh J, Hong SL, Cuypers L, O'Toole Á, **Dudas G**, ..., Suchard MA, Rambaut A, Dellicour S, Maes P, Durkin K, Baele G, *Emergence of the B.1.214.2 SARS-CoV-2 lineage with an Omicron-like spike insertion and a unique upper airway immune signature*, BMC Infectious Diseases 24(1): 1139.
- 2024 43. Glascock AL, Waltari E, **Dudas G**, Wong J, Ah Yong V, *PoMeLo: a systematic computational approach to predicting metabolic loss in pathogen genomes*, BMC Bioinformatics 25:49.
- 2023 42. **Dudas G**, Batson J, *Accumulated metagenomic studies reveal recent migration, whole genome evolution, and undiscovered diversity of orthomyxoviruses*, Journal of Virology 97(10): e01056-23.
- 2023 preprint Medicielo J, Waltari E, Glascock AL, **Dudas G**, DeFelice B, Gray I, Tato CM, Wong J, Ah Yong V, *Evolutionary genomics identifies host-directed therapeutics to treat intracellular bacterial infections*, bioRxiv: 2023.08.01.551011.
- 2023 41. Selhorst P, Lequime S, **Dudas G**, ..., Vanlerberghe V, Van Esbroeck M, Arien KK, *Phylogeographic analysis of dengue virus serotype 1 and Cosmopolitan serotype 2 in Africa*, International Journal of Infectious Diseases 133: 46-52.
- 2023 40. Tang M, **Dudas G**, Bedford T, Minin VN, *Fitting stochastic epidemic models to gene genealogies using linear noise approximation*, Annals of Applied Statistics 17(1): 1-22.
- 2022 39. [<sup>1</sup> Brito AF, Semenova E, **Dudas G**], Hassler GW, Kalinich CC, Kraemer MUG, ..., Suchard MA, Grubaugh ND, Baele G, Faria NR, *Global disparities in SARS-CoV-2 genomic surveillance*, Nature Communications 13: 7003.
- 2022 38. Klitting R, Kafetzopoulou LE, Thiery W, **Dudas G**, Gryseels S, ..., Suchard MA, Lemey P, Andersen KG, Dellicour S, *Predicting the evolution of Lassa Virus endemic area and population at risk over the next decades*, Nature Communications 13: 5596.
- 2022 37. Tsitsiklis A, Osborne CM, Kamm J, Williamson K, Kalantar K, **Dudas G**, ..., DeRisi JL, Mourani PM, Langelier CR, *Lower respiratory tract infections in children requiring mechanical ventilation: a multicentre prospective surveillance study incorporating airway metagenomics*, The Lancet Microbe 3(4): e284–e293.

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<sup>1</sup>[ ] denotes equal contribution

- 2022 36. Kaleta T, Kern L, Hong SL, ..., **Dudas G**, ..., Baele G, Panning M, Fuchs J, *Antibody escape and global spread of SARS-CoV-2 lineage A.27*, Nature Communications 13: 1152.
- 2021 35. [**Dudas G**], Hong SL, Potter B, Calvignac-Spencer S, Niatou-Singa FS, Tombolomako TB, Fuh-Neba T, ..., Griškevičius L, [**Baele G**], *Emergence and spread of SARS-CoV-2 lineage B.1.620 with variant of concern-like mutations and deletions*, Nature Communications 12: 5769.
- 2021 34. Chazot N, Condamine FL, **Dudas G**, Peña C, Kodandaramaiah U, Matos-Maraví P, ..., Wahlberg N, *Conserved ancestral tropical niche but different continental histories explain the latitudinal diversity gradient in brush-footed butterflies*, Nature Communications 12: 5717.
- 2021 33. Pautienius A, **Dudas G**, Šimkutė E, Grigas J, Zakienė I, Paulauskas A, Armonaitė A, Zienius D, Šlyžius E, Stankevičius A, *Bulk Milk Tank Samples Are Suitable to Assess Circulation of Tick-Borne Encephalitis Virus in High Endemic Areas*, Viruses 13(9):1772.
- 2021 32. Zeller M, Gangavarapu K, Anderson C, Smither AR, Vanchiere JA, Rose R, Snyder DJ, **Dudas G**, Watts A, Matteson NL, Robles-Sikisaka R, ..., Kamil JP, Garry RF, Suchard MA, Andersen KG, *Emergence of an early SARS-CoV-2 epidemic in the United States*, Cell 184, 4939–4952.
- 2021 31. Arze CA, Springer S, **Dudas G**, Patel S, Bhattacharyya A, Swaminathan H, ..., Andersen KG, Yozwiak NL, *Global genome analysis reveals a vast and dynamic anellovirus landscape within the human virome*, Cell Host & Microbe 29(8): 1305-1315.e6.
- 2021 30. Pirnay JP, Selhorst P, Hong SL, Cochez C, Potter B, Maes P, Petrillo M, **Dudas G**, ..., Soentjens P, Baele G, *Variant Analysis of SARS-CoV-2 Genomes from Belgian Military Personnel Engaged in Overseas Missions and Operations*, Viruses 13(7): 1359.
- 2021 29. [Batson J, **Dudas G**, Haas-Stapleton E, Kistler A, Li LM, Logan P, Ratnasari K, Retallack H], *Single mosquito metatranscriptomics identifies vectors, emerging pathogens and reservoirs in one assay*, eLife 10:e68353.
- 2021 28. **Dudas G**, Huber G, Wilkinson M, Yllanes D, *Polymorphism of Genetic Ambigrams*, Virus Evolution 7(1): veab038.
- 2020 27. Karcher MD, Carvalho LM, Suchard MA, **Dudas G**, Minin VN, *Estimating effective population size changes from preferentially sampled genetic sequences*, PLoS Comput Biol 16(10): e1007774.
- 2020 26. Müller NF, Stolz U, **Dudas G**, Stadler T, Vaughan TG, *Bayesian inference of reassortment networks reveals fitness benefits of reassortment in human influenza viruses*, PNAS 117(29): 17104-17111.
- 2019 25. **Dudas G**, Bedford T, *The ability of single genes vs full genomes to resolve time and space in outbreak analysis*, BMC Evolutionary Biology 19(1): 1-17.
- 2019 24. Müller NF, **Dudas G**, Stadler T, *Inferring time-dependent migration and coalescence patterns from genetic sequence and predictor data in structured populations*, Virus Evolution 5(2): vez030.

- 2018 23. Dellicour S, Baele G, **Dudas G**, Faria NR, Pybus OG, Suchard MA, Rambaut A, Lemey P, *Phylogenetic assessment of intervention strategies for the West African Ebola virus outbreak*, Nature Communications 9: 2222.
- 2018 22. Chu DKW, Hui Kenrie PY, ..., **Dudas G**, ..., Drosten C, Chevalier V, Peiris M, *MERS coronaviruses from camels in Africa exhibit region-dependent genetic diversity*, PNAS 115(12): 3144-3149.
- 2018 21. Whitmer SLM, Ladner JT, ..., **Dudas G**, ..., Palacios G, Ströher U, *Active Ebola Virus Replication and Heterogeneous Evolutionary Rates in EVD Survivors*, Cell Reports 22(5): 1159-1168.
- 2018 20. **Dudas G**, Carvalho LM, Rambaut A, Bedford T, *MERS-CoV spillover at the camel-human interface*, eLife 7: e31257.
- 2017 19. Langat P, Raghwanji J, **Dudas G**, ..., Russell C, Pybus O, Kellam P, McCauley J, Watson S, *Genome-wide evolutionary dynamics of influenza B viruses on a global scale*, PLOS Pathogens 13(12): e1006749.
- 2017 18. [Grubaugh ND, Ladner JT, Moritz KUG, **Dudas G**, Tan AL, Gangavarapu K, Wiley MR, White S, Théze J], ..., Sabeti PC, Gillis LD, Michael SF, Bedford T, Pybus OG, Isern S, Palacios G, Andersen KG, *Multiple introductions of Zika virus into the United States revealed through genomic epidemiology*, Nature 546(7656): 401-405.
- 2017 17. **Dudas G**, Carvalho LM, Bedford T, Tatem AJ, Baele G, Faria N, Park D, Ladner J, Arias A, ..., Suchard M, Lemey P, Rambaut A, *Virus genomes reveal the factors that spread and sustained the West African Ebola epidemic*, Nature 544(7650): 309-315.
- 2017 preprint Black A, Potter B, **Dudas G**, Feldstein L, Grubaugh ND, Andersen KG, Ellis BR, Ellis EM, Bedford T, *Genetic characterization of the Zika virus epidemic in the US Virgin Islands*, bioRxiv: 113100.
- 2016 16. Holmes EC, **Dudas G**, Rambaut A, Andersen KG, *The Evolution of Ebola virus: Insights from the 2013-2016 Epidemic*, Nature 538(7624): 193-200.
- 2016 15. Whitmer SLM, Albarrino C, Shepard SS, **Dudas G**, ..., Nichol ST, Ströher U, *Preliminary Evaluation of the Effect of Investigational Ebola Virus Disease Treatments on Viral Genome Sequences*, Journal of Infectious Diseases: jiw177.
- 2016 14. Rambaut A, **Dudas G**, Carvalho LM, Park DJ, Yozwiak NL, Holmes EC, Andersen KG, *Comment on "Mutation rate and genotype variation of Ebola virus from Mali case sequences"*, Science 353(6300): 658-658.
- 2016 13. Arias A, Watson SJ, Asogun D, ..., **Dudas G**, ..., Pybus OG, Rambaut A, Kellam P, Goodfellow I, Cotten M, *Rapid outbreak sequencing of Ebola virus in Sierra Leone identifies transmission chains linked to sporadic cases*, Virus Evolution 2 (1): vew016.
- 2016 12. Lewis NS, Russell CA, Langat P, ..., **Dudas G**, ..., Watson SJ, Brown IH, Vincent AL, *The global antigenic diversity of swine influenza A viruses*, eLife 5: e12217.
- 2016 11. Quick J, Loman NJ, Duraffour S, Simpson JT, Severi E, Cowley L ..., **Dudas G**, ..., Günther S, Carroll MW, *Real-time, portable genome sequencing for Ebola surveillance*, Nature 530(7589): 228-232.
- 2016 10. **Dudas G**, Rambaut A, *MERS-CoV recombination: implications about the reservoir and potential for adaptation*, Virus Evolution 2(1): vev023.
- 2015 9. Ladner JT, Wiley MR, Mate S, **Dudas G**, ... Palacios G, *Evolution and Spread of Ebola Virus in Liberia, 2014-2015*, Cell Host & Microbe 18(6): 659-669.

- 2015 8. [Park DJ, **Dudas G**, Wohl S, Goba A, Whitmer SLM], ..., Sabeti PC, *Ebola Virus Epidemiology, Transmission, and Evolution during Seven Months in Sierra Leone*, Cell 161(7): 1516-1526.
- 2015 7. Carroll MW, Matthews DA, Hiscox JA, ... **Dudas G**, ... Günther S, *Temporal and spatial analysis of the 2014-2015 Ebola virus outbreak in West Africa*, Nature 524(7563): 97-101.
- 2015 6. **Dudas G**, Obbard DJ, *Are arthropods at the heart of virus evolution?*, eLife 4: e06837.
- 2015 5. **Dudas G**, Bedford T, Lycett S, Rambaut A, *Reassortment between Influenza B Lineages and the Emergence of a Coadapted PB1–PB2–HA Gene Complex*, Molecular Biology and Evolution 32(1): 162-172.
- 2014 4. Obbard DJ, **Dudas G**, *The genetics of host–virus coevolution in invertebrates*, Current Opinion in Virology 8: 73-78.
- 2014 3. Gire SK, Goba A, Andersen KG, ... **Dudas G**, ... Sabeti PC, *Genomic surveillance elucidates Ebola virus origin and transmission during the 2014 outbreak*, Science 345(6202): 1369-1372.
- 2014 2. **Dudas G**, Rambaut A, *Phylogenetic analysis of Guinea 2014 EBOV Ebolavirus outbreak*, PLOS Currents Outbreaks 6.
- 2014 1. Bedford T, Suchard MA, Lemey P, **Dudas G**, Gregory V, ..., Rambaut A, *Integrating influenza antigenic dynamics with molecular evolution*, eLife 3: e01914.

## Books

- 2024 Tomkuvienė M, Štitylytė M, Mickutė M, **Dudas G**, Olendraiūtė I, Gasiūnas G, *Kodas RNR. Nuo kovos su virusais iki tobulų genų*, Vilnius University Press, ISBN-13: 978-6090710814.  
Popular science
- 2024 Black A, **Dudas G**, *The Applied Genomic Epidemiology Handbook: A Practical Guide to Leveraging Pathogen Genomic Data in Public Health (1st ed.)*, Chapman and Hall/CRC, ISBN-13: 978-1032530260.  
Professional literature

## Funding

- 2024-2028 co-PI, Swedish Research Council grant 2023-04948\_VR, 4 years, 3 800 000 SEK (approx. 330 000 EUR).
- 2023- PI, EMBO Installation Grant EMBO-IG-5305-2023, 3 years, 150 000 EUR.

## Professional service

- 2025 Sep 24-26 Member of organising committee for EMBO Young Scientists Forum in Vilnius.
- 2024-2026 Component Leader for a genomic epidemiology European Commission Twinning project in Georgia (GE 21 NDICI HE 01 23). Assisting staff of the Richard Lugar Center for Public Health Research in Tbilisi in designing and implementing sustainable genomic surveillance for infectious diseases of local and international significance. Funding: 1 200 000 EUR. Project on hold as of June 2025 due to the violation of democratic norms in Georgia following its 2024 presidential election.

2021-2022	Co-author and chief data analyst for Lithuania's pandemic SARS-CoV-2 genomic surveillance project. The project generated >39 000 SARS-CoV-2 genomes February 2021 - May 2022 averaging $\approx 2.0\%$ (between 0.2% and 28% in a given month) of all COVID-19 cases in Lithuania.
2021-2022	Advisory council of independent experts to the Lithuanian government tasked with advising the government on COVID-19 prevention, diagnostics, treatment, and application of other means of epidemic control.
2016-2018	Social media editor (on Twitter) for Virus Evolution.
<i>Ad hoc</i> journal referee	BMC Bioinformatics, Cell Reports, eLife, Genome Medicine, Infection, Genetics and Evolution, The Journal of Infectious Diseases, Molecular Biology and Evolution, Nature Communications, Nature Ecology & Evolution, Nature Medicine, Nature Microbiology, PeerJ, PLOS Biology, PLoS Currents Outbreaks, PLoS Neglected Tropical Diseases, PLOS Pathogens, Proceedings of the Royal Society B, Scientific Reports, Virology Journal, Virus Evolution.
<i>Ad hoc</i> grant referee	The Wellcome Trust Early-Career Award.

## Supervision

### Postdoctoral

2024-	Miglė Gabrielaitė (Marie Skłodowska-Curie Action)
2023-	Milda Norkienė

### Postgraduate

2024-	Monika Repšytė (PhD) (joint with Milda Norkienė)
2024-	Emre Mert Asar (PhD)
2024-	Aistė Židonytė (MSc)
2024-	Miglė Kazlauskaitė (MSc)
2024-	Indrė Blagnytė (MSc) <sup>2</sup>
2023-	Martynas Smičius (PhD)

### Undergraduate (BSc)

2025-	Aušrinė Žvirblytė
2025-	Eglė Mašauskaitė
2023-	Andrius Zimnickas

### Former

2024-2025	Adriana Tulauskaitė (BSc) (joint with Rasa Bernotienė)
2024-2025	Arnoldas Girdauskas (BSc)
2023-2025	Linas Gasparavičius (MSc)
2023-2024	Aistė Židonytė (BSc)
2023-2024	Miglė Kazlauskaitė (BSc) (joint with Miglė Tomkuvienė)
2022-2024	Brygida Serebriakova (MSc)
2018-2021	Karthik Gangavarapu (PhD) <sup>2</sup>

<sup>2</sup>informal supervision

2017-2021 Barney I Potter (research assistant)<sup>2</sup>  
 2016-2018 Sidney M Bell (PhD)<sup>2</sup>

## Presentations

2025,	Warsaw	Invited oral presentation at the 11th Polish Evolutionary Conference, "More questions than answers: the Wuhan mosquito virus 6 pandemic in mosquitoes"
2025,	Vilnius	Invited oral presentation at Vilnius International Oncology Summer School organised by Vilnius University's Medicine Faculty, "Phylogenetics to the rescue, the RNA virus perspective"
2025,	Vilnius (remote)	Oral presentation at Lithuanian Ministry of Health's informal "Knowledge Club", "Genominė epidemiologija šiuolaikinių protrūkių fronto linijose"
2025,	Lisbon	Oral presentation at RdRp Summit, "Soaring above profound depths of RdRP diversity"
2025,	Kaunas (remote)	Invited oral presentation at the Lithuanian University of Health Sciences, "Long-term circulation of SARS-CoV-2 in Lithuanian mink"
2025,	Vilnius	Invited oral presentation at FEBS3+ Baltics, "The global pursuit of Wuhan mosquito virus 6, a metagenomic RNA virus implicated in vertebrate infection"
2024,	Hinxton	Oral presentation at the Virus Genomics, Evolution and Bioinformatics conference, "Rapid global population dynamics and fast surface protein evolution imply a vertebrate host for a prevalent mosquito orthomyxovirus"
2024,	Tbilisi	Keynote presentation at the kick-off meeting for the European Commission Twinning project "Enhance National Disease Surveillance System in Georgia through Improvement of the Epidemiological and Molecular (Genomic) Surveillance", GE 21 NDICI HE 01 23
2024,	Český Krumlov	Invited oral presentation at the Phylogenomics Workshop "Reticulate evolution, temporal resolution and custom data visualisations for BEAST analyses" at the 2024 Workshop on Phylogenomics
2023,	Edinburgh	Invited oral presentation at Virus Club "Basically flu but in mosquitoes: Wuhan mosquito virus 6 as a promising new study system"
2023,	Chęciny	Invited oral presentation at the EMBO Microbial Evolution meeting "Towards Genomic Epidemiology of Arthropod Viruses"
2023,	Bangkok (remote)	Invited oral presentation at "Inaugural Association of Public Health Laboratories (APHL), Chan Zuckerberg Biohub Network, Centers for Disease Control and Prevention (CDC) Southeast Asia In-Person Pathogen Genomic Epidemiology Training"
2023,	Vilnius	Invited oral presentation at Open Readings 2023, "The modern response to infectious disease outbreaks using genetic sequencing"
2022,	Vilnius	Invited oral presentation at a joint Lithuanian-CNRS Symposium on Health, "Emergence and spread of SARS-CoV-2 lineage B.1.620 with variant of concern-like mutations and deletions"
2022,	Seattle	Invited oral presentation at Fred Hutchinson Cancer Center computational biology seminar, "The RNA virus research revolution slumbering in accumulated metagenomic data"
2022,	San Francisco	Invited oral presentation at CZ Biohub internal seminar series, "The RNA virus research revolution slumbering in accumulated metagenomic data"

2022,	Vilnius	Invited oral presentation at Lithuanian Biochemical Society's conference Biochemistry in the Big Data Age, "Small victories of the Lithuanian SARS-CoV-2 genomic surveillance programme"
2021,	Vilnius	Invited oral presentation at EVOdrops Workshop 5, "SARS-CoV-2 in Lithuania"
2021,	Vilnius	Invited oral presentation (remote) at Vilnius University Hospital Santaros Klinikos conference COVID-19 infekcija: iššūkiai, patirtys ir ateities perspektyva, "Lietuvos SARS-CoV-2 sekoskaitos projekto pasiekimai" [in Lithuanian]
2021,	Cambridge	Invited (remote) talk at University of Cambridge Department of Virology, "MERS-CoV spillover at the camel-human interface"
2020,	Seattle	Invited (remote) talk at University of Washington Department of Genome Sciences, "Single mosquito metatranscriptomics in California"
2020,	Salt Lake City	Invited (remote) talk as domain expert at BioVis@IEEE Challenges Workshop, part of VIS 2020 virtual conference
2019,	London	Informal presentation at Imperial College London, "Virus genomes reveal the factors that spread and sustained the West African Ebola epidemic"
2019,	Basel	Invited talk at ETH Zürich, "Beyond (two) button phylogenetics"
2019,	Phoenix	Invited talk at Arizona State University, "Reconstructing the history and drivers of viral epidemics from genomes of emerging RNA viruses"
2019,	Flagstaff	Invited talk at Northern Arizona University, "MERS-CoV spillover at the camel-human interface"
2018,	Edinburgh	Invited talk at ARTIC network meeting, "MERS-CoV spillover at the camel-human interface"
2018,	San Diego	Invited talk at UC San Diego HIV Institute, "Reconstructing the history and drivers of viral epidemics from genomes of Zika, MERS-CoV, and Ebola viruses"
2018,	San Francisco	Invited talk at BioHub, "Reconstructing the history and drivers of viral epidemics from virus genomes"
2018,	Bellevue	Oral presentation at the 6th Annual Disease Modeling Symposium, "Genomic epidemiology and population genetics of emerging RNA viruses"
2018,	Tucson	Invited talk at BIO5 Institute, "MERS-CoV spillover at the camel-human interface"
2018,	Tucson	Invited talk at University of Arizona, "Reconstructing the history and drivers of viral epidemics from virus genomes"
2017,	Seattle	Invited talk at University of Washington Institute for Health Metrics and Evaluation, "MERS-CoV spillover at the camel-human interface"
2017,	Baltimore	Invited talk at 19 <sup>th</sup> Annual International Meeting of the Institute of Human Virology, "Virus genomes reveal factors that spread and sustained the Ebola epidemic"
2017,	Edinburgh	Oral presentation at ARTIC network meeting, "Reproducible visualisation using Jupyter notebooks"
2017,	Hong Kong	Oral presentation at Next Generation Informatics for Global Health: Disease Dynamics and Digital Epidemiology, "Virus genomes reveal factors that spread and sustained the Ebola epidemic"
2017,	Boston	Invited talk at Broad Institute, "Virus genomes reveal factors that spread and sustained the Ebola epidemic"



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| 2017, | Boston             | Invited talk at Harvard T.H. Chan School of Public Health, "Virus genomes reveal factors that spread and sustained the Ebola epidemic"                  |
| 2017, | Atlanta            | Oral presentation at the MIDAS Network Meeting, "Virus genomes reveal factors that spread and sustained the Ebola epidemic"                             |
| 2016, | Seattle            | Oral presentation for Combi Seminar series, "Virus genomes reveal the factors that spread and sustained the West African Ebola epidemic"                |
| 2016, | Hinxton            | Oral presentation at Virus Genomics and Evolution, "Pattern and determinants of the geographic dissemination of Ebola virus in West Africa 2013-2016"   |
| 2015, | Zürich             | Invited talk at University of Zürich, "Lessons about virus biology from molecular clocks"                                                               |
| 2015, | Vienna             | Oral presentation at SMBE 2015, "Population genetics of Ebola virus in West Africa"                                                                     |
| 2015, | Lisbon             | Oral presentation at Forecasting Evolution?, "Population genetics of Ebola virus in West Africa"                                                        |
| 2015, | online             | Invited talk at Phyloseminar.org, "Ebola virus epidemiology, transmission, and viral evolution from four months of sequencing in Sierra Leone"          |
| 2015, | Seattle            | Invited talk at Fred Hutchinson Cancer Research Center, "Reticulate evolution: unlikely lessons about RNA viruses and their hosts"                      |
| 2014, | Oxford             | Invited talk at University of Oxford, "Phylogenetics of co-circulating influenza virus lineages"                                                        |
| 2014, | London             | Invited talk at Imperial College London, "Phylogenetics of co-circulating influenza virus lineages"                                                     |
|       | 2013,<br>Amsterdam | Oral presentation at Epidemics 4, "Inter-subtype reassortment patterns in influenza B reveal selective maintenance of co-reassorting segment complexes" |
| 2012, | Glasgow            | Oral presentation at Popgroup 46, "Antagonistic interactions between co-circulating subtypes of human influenza viruses"                                |
| 2012, | Dublin             | Poster at SMBE 2012, "Phylogenetics of influenza viruses before, during and after the 2009 swine flu pandemic"                                          |

## Teaching

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| 2025-, | Tbilisi                 | Eastern Europe and Central Asia (EECA) Genomics Surveillance Community of Practice in Tbilisi, organised by CDC's EECA Regional Office. |
| 2024-, | Vilnius<br>University   | series of lectures for the phylogenetics section of the Bioinformatics course for Genetics BSc students.                                |
| 2024,  | Český<br>Krumlov        | "Temporal tree calibration in BEAST" mini-workshop at the 2024 Workshop for Phylogenomics                                               |
| 2022-, | Vilnius<br>University   | series of lectures for the genome evolution section of the Molecular Evolution course for BSc students.                                 |
| 2015,  | University<br>of Zürich | "Temporal tree calibration in BEAST" mini-workshop                                                                                      |

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## Awards / Achievements

- 2018 SciPy John Hunter Excellence in Plotting Prize, 1st place, for “History of Ebola Virus Epidemic in West Africa 2013-2015”, a matplotlib-based phylogeographic visualisation.
- 2017 Young Investigator Award to attend “Next Generation Informatics for Global Health: Disease Dynamics and Digital Epidemiology” in Hong Kong.
- 2016 Mahan postdoctoral fellowship, Fred Hutchinson Cancer Research Center.
- 2015 SMBE Young Investigator Travel Award to attend the SMBE 2015 meeting in Vienna.
- 2015 Wellcome Trust Travel Grant to attend the “Forecasting Evolution?” meeting in Lisbon.

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## Workshops / Courses

- 2024, Split EMBO Young Investigators Network retreat, Self Leadership and Project and Portfolio Management courses.
- 2023, Heidelberg EMBO Lab Leadership course.
- 2015, University of Birmingham “PoreCamp: A bootcamp to learn about operating the Oxford Nanopore MinION”.

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## Outreach

- Mokslo Sriuba “TOP 5 svarbiausi virusų tyrimų atradimai 2024 m.”, *popular science show*, livestream.  
2025 Jan 17
- STAT News “Want to start a fight among virus experts? Ask about HIV’s new name”, *news website focused on health, medicine, and the life sciences*, interview.  
2025 Jan 09
- LRT Ryto Garsai. “Gytis Dudas: iš faktinės pusės JAV ataskaita dėl laboratorinės SARS-CoV-2 kilmės – bevertė”, *Lithuanian National Radio*, interview.  
2024 Dec 13
- Utena STEAM “Genomų detektyvai šiuolaikinių protrūkių fronto linijose”, *joint Utena district municipality and Utena regional sciences, technology, engineering, arts and mathematics (STEAM) open access center event*, invited talk.  
2024 Nov 22
- LRT / VU Mokslas be pamokslų. “DI išgelbės nuo pandemijų ar sukurs naujų?”, *joint Vilnius University and Lithuanian National Radio and Television podcast*, interview.  
2024 Nov 21
- LRT Mokslo Sriuba. “Uodų tyrimų ekspedicija”, *Lithuanian National Television popular science show*, interview.  
2024 Sep 14
- Žinių Radijas “COVID-19 banga, uodų platinamas virusas ir nerimas dėl paukščių gripo”, *Lithuanian news radio station*, interview.  
2024 Aug 05
- Vilnius iGEM Ask the scientist, *popular science initiative by the Lithuanian International Genetically Engineered Machine (iGEM) competition team*, short video.  
2024 Jun 05

- STAT News “Tracking bird flu virus changes in cows is stymied by missing data, scientists say”, *news website focused on health, medicine, and the life sciences*, interview.  
2024 May 02
- LRT Labas Rytas, *Lithuanian National Television morning show*, interview.  
2024 Apr 24
- LRT Minties eksperimentai. “Pavojingiausi kandidatai ant mokslininkų stalo: kas, jeigu mus vėl ištiktų pandemija?”, *Lithuanian National Radio popular science podcast*, interview.  
2024 Apr 23
- Spectrum “Mokslininkų tiriamas uodų pernešamo viruso modelis gali tapti nauju įrankiu ligų protrūkiams nuspėti”, *Vilnius University science popularisation magazine*, interview.  
2024 Mar 27
- Vilnius University VU ekspertai padeda suprasti. “Dr. Gytis Dudas apie pandemijas”, *Vilnius University social media accounts*, short video.  
2024 Jan 17
- LRT Šviesi Ateitis. “Ką žinome apie koronavirusą ir kitus RNR virusus?”, *Lithuanian National Radio podcast*, interview.  
2024 Jan 03
- Naktis Universitete “Living Library” activity, *Vilnius University Life Sciences Center student union*, short introductory talk.  
2023 Dec 08
- NARA “Mūsų treji su puse COVID metų. Pokalbis su virusų tyrėju Gyčiu Dudu”, *independent Lithuanian language non-profit media organisation*, interview.  
2023 Dec 01
- EMBO podcast “It’s viruses all the way down”, *European Molecular Biology Organisation’s podcast*, interview.  
2023 Oct 30
- Delfi “Tada ir dabar iš užkrečiamųjų ligų perspektyvos”, *conference on longevity organised by an online news portal*, invited presentation.  
2023 Oct 16
- Vilnius University “Genomų detektyvai šiuolaikinių protrūkių fronto linijose”, *outreach event for high-school students at Life Sciences Center*, invited presentation.  
2023 Sep 28
- Vrublevskiai library “Genominė epidemiologija šiuolaikinių protrūkių fronto linijose”, *Youtube channel of the library of the Lithuanian Academy of Sciences*, invited presentation.  
2023 Sep 04
- Moksleiviai - į vyriausybę “Genominė epidemiologija šiuolaikinių protrūkių fronto linijose”, *initiative to familiarise final year schoolchildren with innovation and inner workings of government*, invited session.  
2023 Aug 24
- LOGIN “Aštuonios ligos kurioms mokslas nėra pasiruošęs”, *largest innovation conference in the Baltic region*, invited presentation.  
2023 May 12

- Mokonomika "Kas tie virusai ir kam jų reikia?", *part of UNESCO's World's Largest Lesson*, invited presentation.  
2023 Mar 09
- TV3 "Mokslininkas prabilo apie didžiausią problemą dėl COVID-19: virusas gali kelti riziką net šimtmečiais", *news website of a television channel*, interview.  
2022 Aug 20
- Vilnius University "Genominė epidemiologija: kaip atrodo protrūkiai iš virusų perspektyvos", *a showcase of research carried out at Vilnius University*, invited talk.  
2022 Mar 18
- Kavinė Fantastiška "Kaip sukurti baisiausią pasaulyje virusą", *monthly Lithuanian language podcast about science, fantasy, and science fiction*, invited talk.  
2022 Mar 17
- Mokslo Sriuba "Kaip mutuoja virusai?", *Lithuanian language pop-science show*, consulting.  
2022 Feb 28
- Vilniaus Knygų Mugė "Ar mokslininkai pralaimi sąmokslų teorijoms?", *Vilnius Book Fair*, member of discussion panel.  
2022 Feb 24
- Biology Sandrauga "Genominė epidemiologija: 'teorinė biologija' užkrečiamųjų ligų kontrolėje", *organisation for extracurricular activities for highschool students interested in biology*, invited talk.  
2022 Feb 04
- LRT / VU Mokslas be pamokslų. "Koronaviruso evoliucija: ko laukti?", *joint Vilnius University and Lithuanian National Radio podcast*, interview.  
2022 Jan 06
- VLE "COVID-19 atmainos", *online article in the Universal Lithuanian Encyclopedia*, contributed article.  
2021 Sep 21
- DW "COVID-19: Africa's sequencing lag", *international broadcaster*, interview.  
2021 May 19
- ScienceInsider "Scientists tracking coronavirus variants struggle with global blind spots", *online policy news site of Science Magazine*, interview.  
2021 May 14
- Nacionalinė Moksleivių Akademinė "Evoliucija populiacijos lygmeniu: kartinės idėjos", "Šiuolaikinis mokslo atsakas į epidemijas", *a series of lectures for the National Student Academy, a Lithuanian non-profit public education organisation*, lectures.  
2021 Feb 19
- LRT "Mokslininkas Gytis Dudas apie pačius įdomiausius ir pavojingiausius virusus: mirtiniausią galima sutikti ir Lietuvoje", *Lithuanian National Radio and Television news portal*, interview.  
2021 Jan 24
- Išmani Lietuva "Virusų detektyvas: ar galime užkirsti kelią pandemijoms?", *Lithuanian innovation conference*, invited talk.  
2020 Oct 14
- NARA podcast "Koronavirusas: ką jau žinome, o ko dar ne", *Lithuanian language podcast*, interview.  
2020 Jul 23

- Nature News "How countries are using genomics to help avoid a second coronavirus wave", *science news*, background consultant.  
2020 May 27
- FiveThirtyEight "Genetic Tracking Helped Us Fight Ebola. Why Can't It Halt COVID-19?", *politics and economics news*, interview.  
2020 Apr 15
- LRT "Dar neseniai pasaulis kovojo su mirtinu Ebolos virusu: kaip pavyko suvaldyti epidemiją neturint veikiančios vakcinos", *Lithuanian National Radio and Television*, interview.  
2020 Mar 25
- NARA podcast "Gyventi su COVID-19. Kalba mokslininkai", *Lithuanian language podcast*, interview.  
2020 Mar 15
- Moteris magazine "Ebolos virusą perpratęs Gytis Dudas: "Lietuvoje vis dar jauti, kad gali kažką pakeisti"", *Lithuanian language magazine*, interview.  
2019 Mar 22
- NARA podcast "Perpratęs ebolą: Gytis Dudas", *Lithuanian language podcast*, interview.  
2018 Dec 14
- Hutch News "MERS remains primarily a camel virus – for now", *Fred Hutchinson Cancer Research Center newsletter*, interview.  
2018 Jan 16
- Vancouver Bioinformatics Users Group "Virus genomes reveal factors that spread and sustained the West African Ebola virus epidemic", *bioinformatics users meeting*, invited talk.  
2018 Jan 11
- Cascadia Users of Geospatial Open Source Spring Fling "Reconstructing the history of the Ebola epidemic", *open source geography and software meeting*, invited talk.  
2017 May 20
- The Washington Post "The March for Science could save lives", *daily newspaper*, editorial covering research.  
2017 Apr 19
- GenomeWeb "Ebola Genomes Help Reconstruct Virus' Spread During West African Outbreak", *online science newsletter*, interview.  
2017 Apr 12
- Hutch News "A big-picture look at the world's worst Ebola epidemic", *Fred Hutchinson Cancer Research Center newsletter*, interview.  
2017 Apr 12
- The Scotsman "Edinburgh plays a part in solving Ebola crisis", *Local newspaper*, interview.  
2014 Oct 31
- NERC news "NERC-funded student helps analyse Ebola genome sequence", *Natural Environment Research Council newsletter*, interview.  
2014 Sep 05
- SciDev.net "Ongoing Ebola outbreak highlights research shortcomings", *online science news portal*, interview.  
2014 Jun 04