Mallory A Freeberg, PhD

Who I Am

Contact	Address: Wellcome Trust Genome Campus Website: malloryfreeberg.github.io/whoami	LinkedIn: mallory-freeberg ORCID: 0000-0003-2949-3921	
Professional Experience	 EMBL European Bioinformatics Institute, Cambridge, UK Coordinator, European Genome-phenome Archive Jun 2021 - present Contribute expertise to help establish the Federated EGA Network for transnational discovery of and access to sensitive human data (blog post) Engage with external partners and stakeholders to ensure human data submission, discovery, and distribution services align with community standards and data protection regulations Manage up to14-person team responsible for operating production data archive services (publication) 		
	 Project Lead, UK Biobank, European Genome-phe Oversaw data flow to archive 500,000 whole Built and led 3-person team to successfully of 	human genomes totalling 12PB of da	
	 Senior Bioinformatician, Human Cell Atlas Data C Coordinated data wrangling work for 6-perso Performed curation and ingestion of flagship Developed HCA metadata standard for cellu 	on team across UK- and US-based ins HCA datasets into the Platform	
	 Johns Hopkins University, Baltimore, MD USA Trainer, Galaxy Training Network, The Galaxy Pro- Designed and delivered seven Galaxy training Created training materials and computational search (contributions) 	ng workshops in three countries (publ	,
	 Postdoctoral Research Fellow, Department of Biol Investigated post-transcriptional gene regula Piloted Oxford Nanopore direct RNA sequent 	tory networks using neural networks	ın 2015 - Sep 2017 nes
Education	PhD Bioinformatics , University of Michigan, USA Department of Computational Medicine and Bioinf Dissertation: Computational analysis of the post-tr	ormatics	May 2015 x (thesis)
	BSc Bioinformatics , Saint Vincent College, USA Herbert M. Boyer School of Natural Science, Math Dissertation: Functional annotation of non-coding		May 2009
Selected Publications	Corvo A, Matalonga L, Spalding D, et al. (2023) Remote visualization of large-scale genomic alignments for collaborative clinical research and diagnosis of rare diseases. <i>Cell Genomics</i> . DOI:10.1016/j.xgen.2022.100246		
	Thakur M, Bateman A, Brooksbank C, Freeberg MA, <i>et al.</i> (2022) EMBL's European Bioinformatics Institute (EMBL-EBI) in 2022. <i>Nucleic Acids Res</i> . DOI:10.1093/nar/gkac1098		
	Freeberg MA, Fromont L, D'Altri T, <i>et al.</i> (2021) The European Genome-phenome Archive in 2021. <i>Nucleic Acids Res</i> . DOI:10.1093/nar/gkab1059		
	Rehm HL, Page AJH, Smith L, et al. (2021) GA4GH: International policies and standards for data sharing across genomic research and healthcare. Cell Genomics. DOI:10.1016/j.xgen.2021.100029		

Community Builder. Human Data Sharing Expert. Metadata Enthusiast. Open Science Advocate.

	Lawson J, Cabili MN, Kerry G, et al. (2021) The Data Use Ontology to streamline responsible access to human biomedical datasets. Cell Genomics. DOI:10.1016/j.xgen.2021.100028		
	\Rightarrow Full list of publications can be found on Google Scholar.		
Selected Invited Talks	Federated EGA: Providing global discovery and access for sensitive human data. <i>ISMB/ECCB</i> ; Jul 2023; Lyon, FR (slides)		
	The Federated EGA: Global discovery and access for sensitive human data. <i>GA4GH 10th Plenary</i> ; Sep 2022; Barcelona, ES (slides)		
	FAIR principles and promoting openness in the life sciences. <i>NIHR Statistics Group Workshop</i> ; Feb 2022; virtual (slides)		
	The European Genome-phenome Archive Metadata Model. GHGA Workshop on Metadata in Biomedical Genome Research; Jun 2021; virtual (slides)		
Selected Conferences & Workshops	"Exploring gene and environmental exposure interactions to understand human health and disease" <i>EMBL-</i> <i>EBI Training Course</i> ; Feb 2024; Cambridge, UK; Scientific Organiser and Trainer (course)		
	"Demonstrating Federated EGA services for sensitive data discovery and access" <i>ELIXIR All Hands</i> ; Jun 2023; Dublin, IE; Organiser and Presenter (workshop)		
	"Resource considerations for establishing and operating a federated human data node" <i>ELIXIR All Hands</i> ; Jun 2022; Amsterdam, NL; Presenter (poster)		
Leadership Roles	<i>Co-lead, GA4GH Implementation Forum</i> (Mar 2024 - Present) Guide discussions and assessment of solutions for scaling the Variant Call File format for representing genetic variants across large-scale studies		
	<i>Co-lead, GA4GH "Future of VCF" Working Group</i> (Mar 2022 - Feb 2024) Guide discussions and assessment of solutions for scaling the Variant Call File format for representing genetic variants across large-scale studies		
	<i>Organiser, ELIXIR Federated Human Data Community</i> (Feb 2022 - Present) Set agenda and priority topics for FHD Community meetings, co-organise FHD Community Day event, coordinate federated human data activities across ELIXIR members		
	<i>Chair, Federated EGA Operations Committee</i> (Jan 2021 - Present) Lead Committee in fulfilment of responsibilities, coordinate with Committee members to make progress towards shared goals and milestones		
Teaching & Mentoring	<i>Mentor, Open Life Science</i> (Jul 2020 - Present) Mentor participants on open science practices as part of a 16-week mentorship and training program to empower open science ambassadors		
	<i>UK STEM Ambassador</i> (Jan 2018 - Present) Give talks, demonstrate science experiments, share STEM career guidance		
Training Courses	ELIXIR LEadership And Diversity (ELEAD) mentoring programme2023-presentEmotional Intelligence and Mindfulness2020Talented Women's Impact Programme2019-2020EICAT Complementary Scientific Skills Training - Scientific Project Management2019Handling Conflict and Difficult Conversations2018		