



# LESTER DARRYL GENEVIÈVE,

## Dr.sc.med./PhD, MBChB, MSc

### Postdoctoral Researcher in Biomedical Ethics

#### 1. PERSONAL INFORMATION

Date of birth: May 14, 1987  
 Work Address: Institute for Biomedical Ethics (IBMB), Bernoullistrasse 28,  
 University of Basel, 4056-Basel, Switzerland  
 Email: [lester.genevieve@unibas.ch](mailto:lester.genevieve@unibas.ch); [l.genevieve@liverpool.ac.uk](mailto:l.genevieve@liverpool.ac.uk)  
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#### 2. EDUCATION

2022-2024 **Postgraduate Certificate in Data Science and Artificial Intelligence**, University of Liverpool, United Kingdom.

2017-2021 **Ph.D. in Biomedical Ethics (summa cum laude, average grade 6.0)**, University of Basel, Switzerland.  
 Thesis: *Precision Health Approaches: Ethical considerations for health data processing*. Supervisors: Prof. Dr. Bernice Simone Elger (University of Basel and University of Geneva) and PD Dr. Tenzin Wangmo (University of Basel). Advisor: Prof. Dr. Thomas Perneger (University of Geneva). External expert: Prof. Bettina Borisch (University of Geneva)

2015-2017 **Master of Science in Global Health (average grade 5.63)**, University of Geneva, Switzerland. Specialization in Epidemiology and Biostatistics at the Swiss Tropical and Public Health Institute (SwissTPH).  
 Thesis: *Participatory Approaches and Open Data on Venomous Snakes: A Neglected Opportunity in the Global Snakebite Crisis?* Supervisors: Dr. Rafael Ruiz De Castaneda and Dr. Isabelle Bolon (University of Geneva).

2012-2014 **Master degree in Medicine (Diplôme de fin de deuxième cycle des études médicales)**, University of Bordeaux, France

2007-2014 **Medicinae Baccalaureus, Baccalaureus Chirurgiae (MBChB)**, University of Mauritius and University of Bordeaux

2007-2010 **Bachelor of Science with honors in Medical Science**, University of Mauritius, Mauritius

#### 3. EMPLOYMENT AND INTERNSHIP HISTORY

2022-now **Postdoctoral Researcher** at the University of Basel (IBMB).  
 Institutional responsibilities:

1. Collaborator in multiple national research projects ["Implementing 3Rs in Switzerland: an interdisciplinary in-depth exploration of barriers and facilitators Implement-3R [Implement-3R]", "3R-sTrategies and Harm-benefit analysis: uNderstanding decision-maKing and improving consistency and accountability in animal experiment evaluations in Switzerland [THINK-3R]", and NCCR Automation project "Proactive Ethical Approach to Responsible Automation (PEpp)"]
2. Supervision of PhD students in their empirical research work

3. Task coordination within projects of the NRP-79
  4. Managing a project where I am the PI
  5. Organization of seminars
- 2021-now      **Principal Investigator** of research project titled “Structural Racism In Precision Oncology: An Exploratory Study (STRIPE)”, at the University of Basel, IBMB.
- 2021      **Postdoctoral Researcher and research assistant**, NRP-74 project SMAASH, at the University of Basel, IBMB
- 2020-2021      **Synthesis team member**, NRP-74, Swiss National Science Foundation  
Involved in analyzing and compiling the research findings on the use of health data from projects involved in the NRP 74 programme, “Smarter Health Care”.
- 2017-2021      **Research and teaching assistant** at University of Basel, IBMB  
Institutional responsibilities:
1. Research assistant in the NRP-74 project titled “Advancing SMART solutions and eliminating barriers for the Acquisition, Analysis, and Sharing of Health data in Switzerland [SMAASH]”
  2. Research collaboration with the Influenzanet Consortium, a multinational surveillance platform for influenza-like illness and the German Research Center for Artificial Intelligence (DFKI)
  3. Organization of 2 seminars “Contemporary Debates in Bioethics” for students of the University of Basel in 2018 and 2020
  4. Supporting grant applications
  5. Supporting IBMB research projects
- 2017      **Research assistant** at University of Geneva, Institute of Global Health  
Research assistant in a project on participatory approaches and open data on venomous snakes of public health importance from the World Health Organization list
- 2012-2014      **Medical Extern**, University Hospitals of Bordeaux, France
- 2010-2011      **Research assistant at Ministry of Health and Quality of Life**, Mauritius

#### 4. APPROVED RESEARCH PROJECTS

- 2021 – 2023      Käthe Zinng Schwichtenberg Fund, Swiss Academy of Medical Sciences (CHF 47,170.00; grant number KZS 08/20): “STRUCTURAL Racism In Precision Oncology (STRIPE): An Exploratory Study”. Role: **Principal Investigator**

#### 5. TEACHING ACTIVITIES

- 2023      IBMB: Organization of the seminar “**Contemporary Debates in Bioethics**: Racism in Medicine and Research: Navigating Through Wicked Problems” for students of the University of Basel – Autumn Semester
- IBMB: Seminar “**Methods in Bioethics: Grant Writing**” for graduate students of the University of Basel – Spring Semester
- 2022      IBMB: Tutorial “**Basic Research on Non-Human Primates**” for students of the University of Basel
- 2020      IBMB: Organization of the seminar “**Contemporary Debates in Bioethics**: Ethics at the Edge of Medicine” for students of the University of Basel
- 2018      IBMB: Organization of the seminar “**Contemporary Debates in Bioethics**: Smarter Healthcare, the Ethics of Health Systems Efficiency” for students of the University of Basel

#### 6. PROFESSIONAL AND OTHER MEMBERSHIPS

- 2022-now      The Royal Society for Public Health, United Kingdom, Fellow

2022-now	The Royal Society of Medicine, United Kingdom, Fellow
2022-now	International Association of Bioethics (IAB), Member
2022-now	British Computer Society, The Chartered Institute for IT, Member
2021-2022	Sigma Xi: The Scientific Research Honor Society, Full Member
2019-now	European Public Health Association (EUPHA), Member
2018-now	Public Health Schweiz, Member
2018-2022	Emerging Health Care Leaders (Swiss National Science Foundation), Member

## 7. COMMUNITY SERVICE

Peer Reviewer	I have conducted peer review activities for the following journals: <b>JMIR Research Protocols, JMIR Public Health and Surveillance, JMIR mHealth and uHealth, and BMJ Open.</b>
Review Editor	I am a review editor at <b>Frontiers in Genetics – ELSI in Science and Genetics</b> (IF: 3.7)

## 8. ORGANISATION OF WORKSHOPS

2021	Delphi-based workshop organized at the Brocher Foundation in Geneva, Switzerland: <i>“Between privacy and efficiency: the future for the health-data processing in Switzerland. A Delphi-based workshop.”</i> Co-organizers: Andrea Martani, Tenzin Wangmo and Bernice Elger
2019	SNSF-funded EHCL workshop at the University of Basel: <i>“Research does not happen in a vacuum: a reflection on the health care system.”</i> Co-organizers: Andrea Martani, Tenzin Wangmo and Bernice Elger

## 9. PRIZES AND AWARDS

2020	The University of Basel <b>Travel Fund Grant</b> (CHF 808.00)
2016	<b>Best Young Researcher Award</b> , Jet d’Or de Genève, Geneva Health Forum
2016	<b>Open Seventeen Program Call</b> , GOVLAB (New York University) and Citizen Cyberlab (University of Geneva)

## 10. INTERVIEWS

2022	<i>Hunting for the Holy Grail of medical data.</i> Horizons. Available at: <a href="https://www.horizons-mag.ch/2022/06/02/hunting-for-the-holy-grail-of-medical-data/">https://www.horizons-mag.ch/2022/06/02/hunting-for-the-holy-grail-of-medical-data/</a>
2020	<i>Health-care inequality could deepen with precision oncology.</i> Nature 585, S13-S15. DOI: <a href="https://doi.org/10.1038/d41586-020-02678-7">https://doi.org/10.1038/d41586-020-02678-7</a>

## 11. INVITED LECTURE

2021	Invited online lecture by the medical society of the University of Nottingham (UK) to discuss the negative effects of structural racism on the functioning of precision medicine initiatives.
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## 12. CAREER BREAKS

None

## 13. PERSONAL SKILLS

Technical	<b>Qualitative analysis</b> software (MAXQDA), <b>statistical analysis</b> software (STATA, Epi Info), <b>spatial analysis</b> software (QGIS) and <b>Python coding</b> – PEP 8 standards (IDE: PyCharm)
Language	French (mother tongue), English (IELTS score: 8), and German (beginner)



#### 14. POLICY CITATIONS

- 2022 European Commission, Directorate-General for Health and Food Safety, *Study supporting the impact assessment of policy options for an EU initiative on a European health data space*: final report, Publications Office of the European Union. DOI: doi.org/10.0000/320027
- 2021 Randall M, Stern A, Su Y. *Five Ethical Risks to Consider before Filling Missing Race and Ethnicity Data*. Urban Institute. Link: <https://www.urban.org/research/publication/five-ethical-risks-consider-filling-missing-race-and-ethnicity-data>
- Renda A, Fanni R, Laurer M et al. *Study to support an impact assessment of regulatory requirements for Artificial Intelligence in Europe*. European Commission. DOI: doi.org/ 10.2759/523404
- European Commission, Consumers, Health, Agriculture and Food Executive Agency, Hansen, J., Wilson, P., Verhoeven, E., et al., *Assessment of the EU Member States' rules on health data in the light of GDPR*. European Commission. DOI: doi.org/10.2818/546193
- Stapleton PA, Siddiqi SM, Apaydin E et al. *Narrative Review and Evidence Mapping: Proteomics for Cancer and Cardiovascular Disease*. Patient-Centered Outcomes Research Institute. Link: [https://www.rand.org/pubs/external\\_publications/EP68706.html](https://www.rand.org/pubs/external_publications/EP68706.html)

#### 15. SUPERVISION OF JUNIOR DOCTORAL STUDENTS

- 2023 – now Research work supervision of PhD students involved in two NRP 79 projects, “Implementing 3Rs in Switzerland: an interdisciplinary in-depth exploration of barriers and facilitators [Implement-3R]”, and “3R-sTrategies and Harm-benefit analysis: uNderstanding decision-maKing and improving consistency and accountability in animal experiment evaluations in Switzerland [THINK-3R]”.
- PhD students:
1. Dr. vet. med. Louis-Maerten, Edwin
  2. Milford, Aoife
  3. Cajiga, Rosa Maria
  4. Azilagbetor, David Mawufemor
- 2023 – 2026 Azilagbetor, David Mawufemor, **PhD thesis advisor**  
Preliminary PhD thesis title: *An all-inclusive approach to Harm-Benefit Analysis for legitimate animal experiment evaluations – The role of Patient and Public Involvement*

#### 16. PEER-REVIEWED PUBLICATIONS IN INTERNATIONAL SCIENTIFIC JOURNALS

		Altmetric Score <sup>1</sup>
2023	Martani A, <b>Geneviève LD</b> , Wangmo T, Maurer J, Crameri K, Erard F, Spoendlin J, Pauli-Magnus C, Pittet V, Sengstag T, Emiliano E, Hirschel B, Borisch B, Kruschel C, Zwahlen M, Elger BS. Sensing the (digital) pulse. Future steps for improving the secondary use of data for research in Switzerland". <i>Digital Health</i> . 2023;9.	
2022	<b>Geneviève LD</b> , Elger BS, Wangmo T. Impact of structural racism on inclusion and diversity in precision oncology: A scoping and critical review of the literature. <i>Cambridge Prisms: Precision Medicine</i> . Cambridge University Press; 2023;1:e5.	

<sup>1</sup> The Altmetric score is the weighted attention the scholarly article has received as of 09.08.2023, and the different colors represent the type of engagement (e.g. red indicates that the article was picked up by a news outlet, light blue for Twitter, yellow for blogs, purple for policy sources and grey for Wikipedia).

2021	Martani A*, Egli SM*, <b>Geneviève LD</b> , Elger BS, Wangmo T. A role-model for data policies? Qualitative study on the governance of health data in Denmark. Health Policy and Technology. 2022;11(4):100683 *shared first authorship	
	<b>Geneviève LD</b> , Martani A, Wangmo T, Elger BS. Precision Public Health and Structural Racism in the United States: Promoting Health Equity in the COVID-19 Pandemic Response. JMIR Public Health Surveill. 2022;8(3):e33277.	
	<b>Geneviève LD</b> , Martani A, Elger BS, Wangmo T. Individual notions of fair data sharing from the perspectives of Swiss stakeholders. BMC Health Services Research. 2021;21(1):1007.	
	Martani A, <b>Geneviève LD</b> , Egli SM, Erard F, Wangmo T, Elger BS. Evolution or Revolution? Recommendations to Improve the Swiss Health Data Framework. Frontiers in Public Health. 2021;9	
	<b>Geneviève LD</b> , Martani A, Perneger T, Wangmo T, Elger BS. Systemic Fairness for Sharing Health Data: Perspectives From Swiss Stakeholders. Frontiers in Public Health. 2021;9.	
2020	Martani A, <b>Geneviève LD</b> , Elger B, Wangmo T. 'It's not something you can take in your hands'. Swiss experts' perspectives on health data ownership: an interview-based study. BMJ Open. 2021;11(4):e045717.	
	<b>Geneviève LD</b> , Martani A, Shaw D, Elger BS, Wangmo T. Structural racism in precision medicine: leaving no one behind. BMC Medical Ethics. 2020;21(1):17.	
	Martani A, <b>Geneviève LD</b> , Poppe C, Casonato C, Wangmo T. Digital pills: a scoping review of the empirical literature and analysis of the ethical aspects. BMC Medical Ethics. 2020;21(1):3.	
2019	Martani A, <b>Geneviève LD</b> , Pauli-Magnus C, McLennan S, Elger BS. Regulating the Secondary Use of Data for Research: Arguments Against Genetic Exceptionalism. Frontiers in Genetics. 2019;10.	
	<b>Geneviève LD</b> , Martani A, Mallet MC, Wangmo T, Elger BS. Factors influencing harmonized health data collection, sharing and linkage in Denmark and Switzerland: A systematic review. PLOS ONE. 2019;14(12):e0226015.	
	<b>Geneviève LD</b> , Martani A, Wangmo T, Paolotti D, Koppeschaar C, Kjelsø C, et al. Participatory Disease Surveillance Systems: Ethical Framework. J Med Internet Res. 2019;21(5):e12273.	
2018	<b>Geneviève LD</b> , Wangmo T, Dietrich D, Woolley-Meza O, Flahault A, Elger BS. Research Ethics in the European Influenzanet Consortium: Scoping Review. JMIR Public Health Surveill. 2018;4(4):e67.	
	<b>Geneviève LD</b> , Ray N, Chappuis F, Alcoba G, Mondardini MR, Bolon I, et al. Participatory approaches and open data on venomous snakes: A neglected opportunity in the global snakebite crisis? PLOS Neglected Tropical Diseases. 2018;12(3):e0006162.	

## 17. BOOK CHAPTERS

- 2019 Haesen S, **Geneviève LD**, and Elger BS. "Personnes âgées en Prison." RMS Editions (2019): 317-330.

## 18. NON-PEER REVIEWED PUBLICATIONS

- 2022 Zwahlen M, Dressel H, **Geneviève LD**, Rachamin Y. Synthesis Working Paper: Health Care Data. National Research Programme 74: Smarter Health Care. Available at: <https://www.nfp74.ch/SiteCollectionDocuments/nrp74-synthesis-working-paper-health-care-data.pdf>

## 19. SELECTED CONFERENCE/WORKSHOP PRESENTATIONS

2022	<b>Geneviève LD</b> and Elger BS. <i>Implement-3R: supporting the 3R implementation momentum in Switzerland</i> . 14 <sup>th</sup> Conference on Animal Experimentation and Alternatives titled “3R Plus – New Perspectives for Laboratory Animals in Switzerland” and organized by the Swiss Animal Protection organization (SAP), Olten, Switzerland.
	Elger B, <b>Geneviève LD</b> , Martani A and Wangmo T. <i>Promoting the merging of health data in Switzerland. Highlighting practical and political significance</i> . NRP 74 Synthesis conference, Lucerne, Switzerland.
2021	Elger B, <b>Geneviève LD</b> , Martani A and Wangmo T. <i>Promoting the merging of health data in Switzerland. An overview of the project's trajectory</i> . NRP 74 Programme Conference, Zurich, Switzerland.
2020	<b>Geneviève LD</b> , Martani A, Shaw D, Elger BS, and Wangmo T. <i>Structural Racism in Precision Medicine: All patients are equal but some are more equal than others</i> . PEMED 2020: Personalized and Precision Medicine International Conference, Munich, Germany.
2019	<b>Geneviève LD</b> . Advancing SMart solutions and eliminating barriers for the Acquisition, Analysis, and Sharing of Health data in Switzerland [SMAASH]: Defining Priority Areas. Swiss Society of Bioethics workshop, Bigorio, Switzerland.
2018	Martani, A, <b>Geneviève LD</b> and Elger BS. <i>Data Protection regulation: From barrier to facilitator of data sharing in healthcare</i> . Joint 14 <sup>th</sup> World Congress of Bioethics & 7 <sup>th</sup> National Bioethics Conference, St. John's Medical College, Bangalore, Karnataka, India.
	<b>Geneviève LD</b> . <i>Participatory approaches and open data on venomous snakes: a neglected opportunity in the global snakebite crisis?</i> Geneva Health Forum, Geneva, Switzerland.

## 20. REFERENCE CONTACTS

- a. Prof. Dr. Bernice Simone Elger, Head of the Institute for Biomedical Ethics, University of Basel (email: b.elger@unibas.ch)
- b. PD. Dr. Tenzin Wangmo, Senior Researcher at the Institute for Biomedical Ethics, University of Basel (email: Tenzin.wangmo@unibas.ch)