

## Personal information

Surname(s) / First name(s)

**Lusito Eleonora**

Date of birth

06 February 1983

Personal Email

[lusito.eleonora83@gmail.com](mailto:lusito.eleonora83@gmail.com)



## Work experience

Date (from - to)

02/2019 →

Name and adress of employer

San Raffaele Telethon Institute for Gene Therapy (SR-Tiget), Via Olgettina 60, 20132 Milano, Italy

Occupation or position held

Biostatistician/Bioinformatician (postdoctoral fellow full-time)

- Application of statistical methods for variance analysis of highly heterogeneous and sparse biological data (R/Python)
- Application of statistical techniques for groups comparison (R)
- Sample size estimation and power analysis for biological experiments (R)

Date (from - to)

01/2015 - 12/2018

Name and adress of employer

IFOM ETS the AIRC Institute of Molecular Oncology, Via Adamello, 20139 Milano, Italy

Occupation or position held

Biostatistician/Bioinformatician (postdoctoral fellow full-time)

- Statistical analysis (penalized Cox regression for survival analysis) of genomic biomarkers for early diagnosis of lung cancer: Cosmos II-validation cohort (R/SAS)
- Development of a fully automated pipeline for quality control, preprocessing and analysis of Roche qPCR data (R)

## Education and Training

Date	10/2015 - 03/2020
Name and type of organization providing education and training	University of Milano Bicocca, Degree Mark: 110/110 cum Laude
Principal subjects /occupational skills covered and title of the thesis	<p>Master degree thesis in: Modelli Statistici e Inferenza Bayesiana</p> <p>"Hidden markov models to classify epigenetic signatures in networks of coexpressed genes in triple-negative/basal like breast cancer"</p> <ul style="list-style-type: none"><li>- Application of Hidden Markov models for features extraction from breast cancer data and Gaussian mixture models for clustering (R/Python)</li></ul>
Supervisor	Fulvia Pennoni
Title of qualification awarded	Dottore Magistrale in Biostatistica
Level in national classification	Corso di laurea magistrale in biostatistica - Classe LM-82
Date	01/2011 - 03/2015
Name and type of organization providing education and training	University of Milan, European School of Molecular Medicine (SEMM), European Institute of Oncology
Principal subjects /occupational skills covered and title of the thesis	<p>PhD thesis in Computational Biology for Molecular Medicine (PhD student, full-time)</p> <p>"A network-based approach to breast cancer systems medicine"</p> <ul style="list-style-type: none"><li>- Development of a computational pipeline to relate breast cancer patients clinical and biological data (R)</li><li>- Application of network inference methods for gene regulatory interactions prediction (R)</li><li>- Survival analysis (Kaplan-Meier (KM), logrank tests and Cox regression to evaluate the predictive and prognostic value of molecular biomarkers (R/SAS/SPSS)</li><li>- Drug-target identification and prioritisation from public repositories to identify candidate druggable biological molecules (R)</li></ul>
Supervisors	Pier Paolo Di Fiore, Fabrizio Bianchi
Title of qualification awarded	PhD in Computational Biology
Date	10/2007 - 10/2010
Name and type of organization providing education and training	University of Milano Bicocca, Degree Mark: 110/110

Principal subjects /occupational skills covered and title of the thesis

Supervisor

Title of qualification awarded  
Level in national classification

Date

Name and type of organization providing education and training

Principal subjects /occupational skills covered and title of the thesis

Supervisor

Title of qualification awarded  
Level in national classification

## Personal skills and competences

Mother tongue(s)

Other language(s)

*Self-assessment  
European level<sup>(\*)</sup>*

**English**

**German**

Master degree thesis in pharmacogenomics

"Gene expression profiling and gene set enrichment analysis in detecting retinoic acid effects in cancer"

- Analysis of cancer microarray gene expression data and application of rank-based statistical methods to score the effect of retinoic acid on disease progression (R/Perl)

Francesca Zolezzi (unimib) and Maddalena Fratelli/Enrico Garattini (Istituto di Ricerche Farmacologiche "Mario Negri", Milano)

Dottore Magistrale in Bioinformatica

Corso di laurea specialistica in Biotecnologie Industriali - Classe 8S

09/2002 - 07/2007

University of Bari, Aldo Moro, Degree Mark: 109/110

Degree thesis in Molecular Biology

"Correlazione tra mutazioni e livello di mt-DNA in soggetti diabetici (correlation between mutations and mitochondrial level in diabetic patients)"

- Biological/Experimental analysis of the effect of genomic mutations on mitochondrial DNA replication in diabetes (qPCR and qPCR data analysis (Microsoft Excel))

Palmiro Cantatore

Dottore in Biologia Cellulare e Molecolare

Corso di laurea triennale appartenente alla classe delle lauree in Scienze Biologiche (12)

## Italian

English, German

Understanding		Speaking		Writing	
Listening	Reading	Spoken interaction	Spoken production		
B2 Independent user	B2 Independent user	B2 Independent user	B2 Independent user	B2 Independent user	
A1 Basic user	A2 Basic user	A1 Basic user	A1 Basic user	A1 Basic user	

<sup>(\*)</sup> Common European Framework of Reference (CEF) level

Social skills and competences	I have good communication abilities and a very good enterprising spirit. I'm a self-motivated person able to forward motivation, ambition and determination. I have a good teamwork attitude balanced with a propensity to work independently.
Organisational skills and competences	I have leadership and problem solving capabilities. Precision, organization but also flexibility are the major traits of my person.
Computer skills and competences	Good command of main operating systems : Unix, Linux, Windows Good command of R, Python, Perl, SAS, SPSS, STATA, Latex, Java, HTML, Matlab Good command of Microsoft Office <sup>a</sup> tools (Word <sup>a</sup> , Excel <sup>a</sup> and PowerPoint <sup>a</sup> ) and good command of shel bash scripting and reading
Meetings and courses	—Joint National PhD meeting, Gubbio, (PG), Italy, 20-22 October 2011 – poster —Joint National PhD meeting, Pesaro, Italy, 10-12 October 2013 – talk —International PhD Student Cancer Conference, Heidelberg, Germany, 11-13 June 2014 – talk —3S Biology Summer School, Trento, Italy, 8-11 September 2014 – talk —The Ninth q-bio Summer School, Fort Collins, CO, USA, 6-21 July 2015 – talk and poster
Date	—2015 → Paper reviewer for the ACM/SIGAPP Symposium On Applied Computing Paper reviewer for Frontiers journal
<b>Publications and Books/Chapters</b>	Montaldo E*, Lusito E*, Bianchessi V*, Scala S., Basso-Ricci L., Cantaffa C., Masserdotti A., Barilaro M., Barresi S., Genua M., Barbiera G., Lazarevic D., Messina C., Xue E., Marktel S., Tresoldi C., Milani R., Ronchi P., Gattillo S., Santoleri L., Ditadi A., Belfiori G., Aleotti F., Naldini M.M., gENTNER b., Hidalgo A., Kwok I., Hg L.G., Crippa S., Falconi M., Naldini L., Ciceri F., Aiuti A., Ostuni R. <i>Nature Immunology (under revision)</i> , 2022. "Cellular and transcriptional dynamics of human neutrophils at steady state and upon stress"  Lusito Eleonora*, Lecca Paola, Carpentieri Bruno. Deep Learning Techniques for gene identification in cancer prevention (chapter in preparation). Big Data Analysis and Artificial Intelligence for Medical Sciences. Wiley, 2022

	<p>Cilenti F., Barbiera G., Caronni N., Iodice D., Montaldo E., Barresi S., Lusito E., Cuzzola V., Vittoria F.M., Mezzanzanica L., Miotto P., Di Lucia P., Lazarevic D., Cirillo D.M., Iannacone M., Genua M., Ostuni R. <i>Immunity</i>, 2021. "A PGE<sub>2</sub>-MEF2A axis enables context-dependent control of inflammatory gene expression"</p> <p>Ballesteros I., Rubio-Ponce A., Genua M., Lusito E., Kwok I., Fernandez-Calvo G., Khoyratty T.E., van Grinsven E., González-Hernández S., Nicolás-Ávila J.Á., Vicanolo T., Maccataio A., Benguría A., Li J.L., Adrover J.M., Aroca-Crevillen A., Quintana J.A., Martín-Salamanca S., Mayo F., Ascher S., Barbiera G., Soehnlein O., Gunzer M., Ginhoux F., Sánchez-Cabo F., Nistal-Villán E., Schulz C., Dopazo A., Reinhardt C., Udalova I.A., Ng L.G., Ostuni R., Hidalgo A. <i>Cell</i>, 2020. "Co-option of neutrophil fates by tissue environments"</p> <p>Bénéchet A.P., De Simone G., Di Lucia P., Cilenti F., Barbiera G., Le Bert N., Fumagalli V., Lusito E., Moalli F., Bianchessi V., Andreatta F., Zordan P., Bono E., Giustini L., Bonilla W.V., Bleriot C., Kunasegaran K., Gonzalez-Aseguinolaza G., Pinschewer D.D., Kennedy P.T.F., Naldini L., Kuka M., Ginhoux F., Cantore A., Bertoletti A., Ostuni R., Guidotti L.G., Iannacone M. <i>Nature</i>, 2019. "Dynamics and genomic landscape of CD8<sup>+</sup> T cells undergoing hepatic priming"</p> <p>Lusito E*, Felice B., D'Ario G., Ogier A., Montani F., Di Fiore P.P., Bianchi F. <i>Bioinformatics</i>, 2019. "Unraveling the role of low-frequency mutated genes in breast cancer"</p> <p>*first author(s)</p>
<b>Location and date</b>	Milano, 30/06/2022
<b>Processing of personal data</b>	<p><i>I authorize the processing of personal data under the Italian Legislative Decree (art. 4 D.Lgs. 196/03)</i></p> <p><i>Consapevole che le dichiarazioni false comportano l'applicazione delle sanzioni previste dall'art. 76 del D.P.R. 445/2000, dichiaro che le informazioni riportate nel curriculum vitae corrispondono a verità.</i></p>