

# Miaozhu Li, Ph.D.

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2024 West Main Street, Room B112, Durham, NC 27708

## EDUCATION

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**China Agricultural University (CAU)** 2005.09 – 2008.06

B.S. in Biological Sciences with Honors

Graduated 1 year early based on academic excellence

Overall GPA: 3.61/4 (88/100)

**Institute for Nutritional Sciences (INS), SIBS, CAS** 2008.09 – 2013.06

Ph.D. in Genetic and Environmental Epidemiology

Advisor: Prof. Lin He

## ACADEMIC EXPERIENCE

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**Leibniz Institut für umweltmedizinische Forschung (IUF)** 2011.11 – 2012.07

*Visiting Scientist*

*Düsseldorf, Germany*

· Advisor: Prof. Ursula Krämer

· Project: Gene-environment interactions in the onset of allergic diseases

**CAS-MPG Partner Institute for Computational Biology** 2013.07 – 2014.08

*Postdoctoral Fellow*

*Shanghai, China*

· Advisors: Prof. Sijia Wang; Prof. Jean Krutmann

· Project: Air pollution exposure, its interaction with genes and the role of systemic inflammation on skin-related outcomes

**Center for Population Health and Aging, Duke University** 2014.09 – present

*Postdoctoral Associate*

*Durham, US*

· Advisor: Dr. Svetlana Ukraintseva

· Project: Relationships among genetic regulators of aging, health and lifespan

## PROFESSIONAL SKILLS

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<b>Statistical Computing</b>	SAS, Stata, SPSS for statistical analysis
	R for data mining, machine learning and data visualization
<b>Bioinformatics</b>	NGS software: Bowtie2, BWA, SOAP, Samtools, Bedtools, Tophat, Cufflinks
	GWAS tools: PLINK, Haploview, IMPUTE2
<b>Programming</b>	Linux Shell, Perl, Python and C
<b>Experimental Skills</b>	PCR, Quantitative PCR, NGS library preparation, ELISA and Western Blot
<b>Languages</b>	Mandarin Chinese, English (IELTS Overall score 7), German (A2)

## PUBLICATIONS

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### Peer-Reviewed Journal Articles

**M Li**, Wu Y, Chen G, Yang Y, Zhou D, Zhang Z, Zhang D, Chen Y, Lu Z, He L, Zheng J, Liu Y. Deletion of the late cornified envelope genes *LCE3C* and *LCE3B* is associated with psoriasis in a Chinese population. *J Invest Dermatol.* 2011, 131(8):1639–1643. doi:10.1038/jid.2011.86

S Wu, **M Li**, Y Liu, M Wei. Meta-analyses of correlation between tea consumption and risk of ovarian cancer. *Journal of Shanghai Jiaotong University (Medical Science).* 2011, 31(6) 840–845.

X Zeng, X Tang, X Wang, **M Li**, Y Guo, W Huang, Y Niu, W Leng. AlloDerm implants for prevention of Frey syndrome after parotidectomy: A systematic review and meta-analysis. *Mol Med Report*. 2012, 5(4):974–980. doi:10.3892/mmr.2012.762

A.I. Yashin, D. Wu, L.S. Arbeeveva, K.G. Arbeev, A.M. Kulminski, I. Akushevich, M. Kovtun, I. Culminskaya, E. Stallard, **M Li**, S.V. Ukraintseva. Genetics of aging, health and survival: Dynamic regulation of human longevity related traits. (Accepted in *Front Genet*)

**M Li**, E Link, C Cramer, D Sugiri, H Lin, U Krämer. Interactions between filaggrin (*FLG*) mutations and traffic-related pollution in the induction of eczema in children. (under review)

**M Li**\*, A. Vierkötter\*, T. Schikowski, A. Ding, M. S. Matsui, B. Deng, J. Zhang, J. Tan, Y. Yang, L. Jin, J. Krutmann, Z. Li, S. Wang. Indoor air pollution from cooking with fossil fuels accelerates skin aging in Chinese women. (\* co-first authors, under review)

W Hou, **M Li**, X Wan, J Fan, T Chen. Variants *Fok1* and *Bsm1* are associated with the melanoma risk: evidence from the published epidemiological studies. (under review)

## Book Chapters

**M Li**. Meta-Analysis of Correlation Coefficients with metacor and MAc, In: *Applied Meta-Analysis using R*, X. Zeng ed., Beijing: Military Medical Science Press, 2015. In press.

## Oral Presentations

**M Li**, E Link, C Cramer, D Sugiri, H Lin, U Krämer. Interactions between filaggrin mutations and traffic-related pollution in the induction of eczema in children, *Shanghai Doctoral Public Lectures in Biology*, December 2013.

## Posters

**M Li**\*, A. Vierkötter\*, A Ding, MS Matsui, B Deng, J Zhang, J Tan, Y Yang, T Schikowski, L Jin, J Krutmann, S Wang. Ethnic differences and environmental factors in skin aging. *J Invest Dermatol*. 134: S61–S71; doi:10.1038/jid.2014.105 (\* co-first authors)

A Vierkötter\*, **M Li**\*, C Ma, B Deng, MS Matsui, J Krutmann, Z Li. Indoor air pollution from cooking with coal or firewood accelerates skin aging in northern Chinese women. *J Invest Dermatol*. 134: S61–S71; doi:10.1038/jid.2014.105 (\* co-first authors)

**M Li**, A. Vierkötter, A Ding, MS Matsui, J Tan, T Schikowski, L Jin, J Krutmann, S Wang. Environmental and lifestyle factors affecting skin aging in different ethnic groups. *CAS-MPG PICB Scientific Exchange Meeting*, June 2014.

## AWARDS AND HONORS

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Honor's Scholarship (Grade 2), China Agricultural University	2006.10
National Encouragement Scholarship (top 5%), China Agricultural University	2007.10
Wood-Whelan Research Fellowship of IUBMB, the 2 <sup>nd</sup> Chinese student won it	2011.06
Third prize for the academic report in 4 <sup>th</sup> Doctoral Student Symposium in INS	2012.10
Pfizer Scholarship of Shanghai Institutes for Biological Sciences	2013.01
Merit Student in Chinese Academy of Sciences	2013.05
Nominated Postdoc by Post-Doctoral Retreat in the 73 <sup>rd</sup> SID Annual Meeting	2014.05
Best Poster Award in 2014 CAS-MPG PICB Scientific Exchange Meeting	2014.06

## MEMBERSHIP

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Friends of International Union of Biochemistry and Molecular Biology	2009
European Academy of Allergy and Clinical Immunology (EAACI)	2012

The German Society for Epidemiology (DGEpi)	2012
Society for Investigative Dermatology (SID)	2013
American Dermatoepidemiology Network (ADEN)	2014
The Cochrane Collaboration	2014

## SOCIAL ACTIVITIES

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Team leader of the volunteers of 21 <sup>th</sup> IUBMB & 12 <sup>th</sup> FAOBMB	2009.08
International Congress of Biochemistry and Molecular Biology, IUBMB	
Volunteer of Junior Achievement, China, Project Manager of MESE (Management Economic Simulation Exercise)	2009.09 – 2013.06
Team leader of “Qiu Suo Lecture Room” in Chinese Academy of Sciences	2009.09 – 2013.06
Volunteer of 2010 Shanghai International Youth Science and Technology Expo	2010.07
Committee member of <i>Capital of Statistics</i> ( <a href="http://cos.name">http://cos.name</a> )	2013.11 – present
Largest online community on statistics in China	
Council Member of Duke University Postdoc Association	2015.02 – present

## REFERENCES

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### **Svetlana V. Ukraintseva, Ph.D.**

Senior Scientist, Project Leader, Center for Population Health and Aging  
Duke University, P.O. Box 90420

Tel: 1-919-668-2712

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### **Lin He, Ph.D.**

Professor, Director of Bio-X Center, Shanghai Jiao Tong University  
Fellow of Chinese Academy of Sciences and Third World Academy of Sciences

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### **Angelo Azzi, M.D., Ph.D.**

Professor, Tufts University  
President of International Union of Biochemistry and Molecular Biology

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### **Ursula Krämer, Ph.D.**

Professor, Senior Scientist of Leibniz Institut für umweltmedizinische Forschung

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### **Philipp Khaitovich, Ph.D.**

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Professor, Skolkovo Institute of Science and Technology

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