



CONTACT

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LANGUAGES



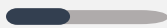
French



Arabic



English



Spanish

PROGRAMMING SKILLS

R, SAS, STATA, PLINK,
HAPLOVIEW

Aline ABOU ASSI

Keywords: epidemiology, early-life exposure, nutrition, genetics, neurodevelopment, cardiometabolic health

EDUCATION

Jan. 2023 – Dec. 2025

PhD in epidemiology

Paris Cité University – Doctoral School Pierre Louis de Santé Publique (ED393)

Oct. 2021 – Jun. 2022

Master's degree in Public Health – Epidemiology

Paris-Saclay University – Medecine Faculty, le Kremlin-Bicêtre, France

Oct. 2015 – Feb. 2021

Doctor of Pharmacy

Lebanese University, Baabda, Lebanon

PROFESSIONAL EXPERIENCES

• POST-DOCTORAL FELLOW

Feb. 2026 – May 2026 (current position)

INSERM – U1153 CRESS – Team OPPaLE, Paris, France

Topic: Biomarkers of perinatal exposure to polyunsaturated fatty acids (PUFA) and Dys disorders risk in children from the French birth cohorts, EDEN and ELFE.

• PhD CANDIDATE

Jan. 2023 – Dec. 2025

INSERM – U1153 CRESS – Team OPPaLE, Paris, France

Supervisors: Dr Barbara Heude, Dr Jonathan Bernard

Topic: Biomarkers of perinatal exposure to polyunsaturated fatty acids (PUFA) and links with child health and development in the French birth cohorts, EDEN and ELFE.

First axis: Patterns of perinatal PUFA status and associated dietary or candidate-genetic factors in the EDEN mother-child cohort

Skills acquired: Principal component analysis, linkage disequilibrium analysis, haplotype identification and association study, Machine Learning imputation (*MissForest*), linear regression, Pearson and Spearman correlations – R, SAS

Second and third axes: Patterns of perinatal exposure to PUFA and links with child neurodevelopment and cardiometabolic health using Mendelian randomization study (MR)

Skills acquired: Methodological knowledge and statistical application of one-sample and two-sample MR, Genome-wide association study analysis – R, PLINK.

• RESEARCH ENGINEER

Oct. 2022 – Dec. 2022

INSERM – U1153 CRESS – Team OPPaLE, Paris, France

Supervisor: Dr Blandine de Lauzon-Guillain

Topic: Cytokine levels in maternal colostrum and allergy risk during childhood in the EDEN and ELFE birth cohorts

Skills acquired: logistic and linear regression, multiple imputation, FDR correction, DAG – SAS

HOBBIES

Scuba diving, swimming, cycling, ukulele

Volunteer first responder with the French Red Cross – Advanced First Aid Certificate (PSE2)

• INTERNSHIPS in EPIDEMIOLOGY

Jan. 2022 – Aug. 2022

INSERM – U1153 CRESS – Team OPPaLE, Paris, France

Supervisor: Dr Blandine de Lauzon-Guillain

Topic: Characteristics of infant formula consumed in the first months of life and child growth in the EDEN and ELFE birth cohorts

Skills acquired: nutritional epidemiology, logistic and linear regression, inverse probability weighting, DAG - SAS

Mar. 2021 – Aug. 2021

INSERM – U1018 CESP – Team Exposome et Hérité, Villejuif, France

Supervisor: Dr Caroline Besson, Elodie Faure

Topic: Association between atmospheric levels of dioxins and risk of lymphoma in the E3N cohort of French women.

Skills acquired: Case-control study methodology, conditional logistic regression, spline regression, report writing.

• MAJOR SCIENTIFIC CONTRIBUTIONS

1. Abou Assi et al. Patterns of perinatal exposure to PUFAs and child neurodevelopment: evidence from Mendelian randomization study using FADS cluster variants. *American Journal of Clinical Nutrition*. 2025. DOI: 10.1016/j.ajcnut.2025.03.014.

2. Abou Assi et al. Patterns of perinatal polyunsaturated fatty acid status and associated dietary or candidate-genetic factors. *Journal of Lipid research*. 2024. DOI: 10.1016/j.jlr.2024.100562.

3. Abou Assi et al. Genome-wide association study of patterns of perinatal exposure to PUFAs from the EDEN mother-child cohort. *European Journal of Human Genetics*. (submitted in mar. 2026).

4. Abou Assi et al. Patterns of perinatal exposure to PUFAs and child cardiometabolic health: a one-sample Mendelian randomization study. *Clinical Nutrition*. (Submitted in apr. 2026).

• CONFERENCES

- ✓ Patterns of perinatal exposure to PUFA and child cardiometabolic health using Mendelian randomization

Oral communication: International Congress of Nutrition (ICN, 08/2025)

- ✓ Patterns of perinatal exposure to PUFA and child neurodevelopment using Mendelian randomization

Oral communications: European Academy of Paediatric Societies (EAPS, 10/2024), French Nutrition Days (JFN, 12/2023), SF-DOHaD (French society - *Developmental Origins of Health and Disease*, 11/2023)

- ✓ Characteristics of infant formula consumed in the first months of life and child growth in the EDEN and ELFE birth cohorts

Oral communications: French Congress of Allergology (CFA, 04/2023)

- ✓ Characteristics of infant formula consumed in the first months of life and child growth in the EDEN and ELFE birth cohorts

Oral communication: European Academy of Paediatric Societies (EAPS, 10/2022)

• SUPERVISION

- ✓ Training in statistical software (R & SAS) and epidemiological methods:
 - 2 students (undergraduate and M2 students)
 - 1 research engineer