

Narimane Nekkab MPH

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EDUCATION

PhD Candidate in Health Security (defense expected in June 2018) Oct 2015 – Oct 2018
Laboratoire modélisation, épidémiologie et surveillance des risques pour la sécurité (3 years)
sanitaire (MESuRS), EA 4628

Sciences des métiers de l'ingénieur (SMI), ED 432

Conservatoire national des arts et métiers (CNAM), Paris, France

- Thesis subject: control of emerging multi-drug resistant *Enterobacteriaceae* in healthcare networks, modelling spread and cost-effectiveness
- Financed by the Programme de Recherche Interdisciplinaire sur les Crises et la Protection Sanitaire (PRINCEPS), Sorbonne Paris Cité
- Prepared in the framework of the Réseau doctoral en santé publique animated by the Ecole de hautes études en santé publique (EHESP)
- Prepared in collaboration with CPias Ile-de-France, Santé Publique France/InVS, EHESP, Institut Pasteur
- Prepared in the framework of the SPHINx project on modelling the spread of health-care associated infections

International Masters in Public Health, with honors Aug 2013 – Jul 2015
Ecole de hautes études en santé publique (EHESP), Paris & Rennes, France (2 years)

- Master's practicum: spread of hospital-acquired infections in the patient transfer networks of France
- Application of qualitative and quantitative methods: survey and analysis of interviews on health and hygiene, qualitative analysis of breastfeeding, interview and qualitative assessment of electronic cigarettes
- Literature reviews and health policy: health policy proposal on vaccination policy of infants in the Philippines, research proposal on Facebook and depression, strategy proposal on the reduction of STI incidence in adolescents

B.A. in Molecular and Cellular Biology, immunology and infectious diseases emphasis Aug 2009 – May 2013
University of California Berkeley, Berkeley CA, USA (4 years)

- Two semesters of graduate-level Principles of Infectious Disease course in the School of Public Health
- Strategy development of the "Community Air Monitoring Project", for the Natural Resources Defense Council
- Research paper on "Analysis of African American expatriates' racial formation in relation to Algerian immigrants in early 20th century France"

PROFESSIONAL EXPERIENCE

Teaching Assistant Oct 2015 – Oct 2018
Ecole de hautes études en santé publique (EHESP), Paris & Rennes, France (3 years)

- Facilitating first year and second year master's students labs with STATA and R biostatistics exercises, corrections, and tutoring session for clarification of concepts
- Facilitating the applied epidemiology training course (IDEA) for the case studies, technical assistant on the 2016 survey on the perception of influenza vaccination among nursing home staff in Ile-de-Vilaine region of France

Internship, Hospital-acquired infection control in the patient transfer network of France Feb – Jun 2015
EHESP and Santé Publique France, Paris, France (5 months)

- Objective: to explore the role of patient transfers in the French healthcare networks, to identify the characteristics of the hospital network in the epidemic spread of hospital-acquired infections
- Methods: use of the PMSI database (medico-administrative database of patient discharge summaries), *in silico* construction of healthcare networks, social network analysis
- Application of the following computer programs: R, Gephi, Google Earth

Internship, Analysis and management of mental health & care practices program database Mar – Aug 2014
Action Against Hunger, Paris, France (6 months)

- Objective: to pilot the implementation of the monitoring and evaluation methods for mental health and care practices programs in various Asian and African countries
- Responsible for digitalizing program questionnaires on the Access-based database application, verified coherence of questionnaire, applied the testing protocol of the application, created project documents (manual, toolkit of evaluation tests, user guide, etc.) in French and English, data collection and analysis, feasibility assessment

Research Assistant, Epithelial and molecular and cellular biology lab Aug 2009 – May 2011
Bilder Lab, University of California Berkeley, Berkeley CA, USA (22 months)

- Responsible for the genetic material and genetic information database

SCIENTIFIC PUBLICATIONS AND INTERNATIONAL CONGRESS

Scientific Publications

- Nekkab N, Crépey P, Astagneau P, Opatowski L, Temime L. Assessing the role of inter-hospital patient transfer in the spread of carbapenemase-producing *Enterobacteriaceae*: the case of France between 2012 and 2015. (*submitted Eurosurveillance*)
- Nekkab N, Astagneau P, Temime L, Crépey P. Spread of hospital-acquired infections: a comparison of healthcare networks. 2017 (*PLoS Computational Biology*)
- Assab* R, Nekkab* N, Crépey P, Astagneau P, Guillemot D, Opatowski L, Temime L. Using data on network structures to inform transmission dynamics of infections in healthcare settings: a review of mathematical models. 2017 (*Current Opinion in Infectious Diseases*) * the first authors contributed equally to the paper

International Congress

- Narimane Nekkab, Pascal Crépey, Pascal Astagneau, Lulla Opatowski, Laura Temime. Assessing the role of inter-hospital patient transfer in the spread of carbapenemase-producing *Enterobacteriaceae*: the case of France between 2012 and 2015. European Congress of Epidemiology 2018. 4-6 July 2018. Lyon, France. (accepted oral presentation)
- Narimane Nekkab, Pascal Crépey, Pascal Astagneau, Lulla Opatowski, Laura Temime. Assessing the role of inter-hospital patient transfer in the spread of carbapenemase-producing *Enterobacteriaceae*: the case of France between 2012 and 2015. NetSci 2018. 11-15 June 2018. Paris, France. (accepted oral satellite presentation)
- Nekkab N, Astagneau P, Temime L, & Crépey P. Spread of hospital-acquired infections: a comparison of healthcare networks. EPIDEMICS6 – 6th International Conference on Infectious Disease Dynamics. 28 November – 1 December 2017. Barcelona, Spain. (oral presentation)
- Nekkab N, Astagneau P, Temime L, Crépey P. Modelling the spread of hospital-acquired infections in France: a comparison of patient transfer networks. FIS/HIS 2016 – Federation of Infection Societies Annual Conference and the 10th Healthcare Infection Society International Conference. 6-8 November 2016, Edinburgh, Scotland. (poster)
- Nekkab N, Astagneau P, Crépey P. Modelling the spread of hospital-acquired infections in France: a comparison of patient transfer networks. ECCMID 2016 - 26th European Congress of Clinical Microbiology and Infectious Diseases. 9-12 April 2016, Amsterdam, Netherlands. (poster)
- Nekkab N, Astagneau P, Crépey P. Modeling the spread of hospital-acquired infections in France: A comparison of patient transfer networks. EPIDEMICS5 – 5th International Conference on Infectious Disease Dynamics. 1-4 December 2015, Florida, USA. (poster)

Seminars

- Nekkab N, Crépey P, & Temime L. Control of hospital-acquired infections in healthcare networks: modeling spread dynamics. Rencontres Scientifiques du Réseau doctoral. 13-14 March 2018. Bordeaux, France. (oral presentation)
- Nekkab N, Astagneau P, Temime L, & Crépey P. Modelling the spread of hospital-acquired infections in France: a comparison of patient transfer networks. Les journées des doctorants de l'école doctorale Sciences des Métiers de l'Ingénieur (SMI). 20-21 June 2017. Paris, France. (poster)
- Nekkab N, Astagneau P, Temime L, & Crépey P. Modelling the spread of hospital-acquired infections in France: a comparison of patient transfer networks. Rencontres Scientifiques du Réseau doctoral. 14-15 March 2017. Rennes, France. (poster)
- Nekkab N, Astagneau P, Temime L, & Crépey P. Contrôle des entérobactéries émergentes multi-résistantes au sein du réseau des hôpitaux : Modélisation et évaluation économique des mesures. Les rencontres étudiantes du réseau PRINCEPS. 7 March 2017. Paris, France. (oral presentation)
- Nekkab N, Astagneau P, Temime L, & Crépey P. Control of emerging multi-drug resistant *Enterobacteriaceae* in healthcare networks: modeling spread and cost-effectiveness. Cpias/CCLIN Ile-de-France. 19 February 2016. Paris, France. (oral presentation)

EXTRACURRICULAR ACTIVITIES

- Organizing team of interdisciplinary seminar entitled "Health democracy: the patient at the heart of the healthcare system" (Paris, France, 20 April 2017)
- Doctoral student representative in the Réseau doctoral en santé publique (2016-2017 & 2017-2018)
- Secretary of the doctoral student association PH'Doc (2015-2016)
- Team member of CNAM running team
- Hobbies include traveling, photography, gardening, calligraphy, and cross-country running

LANGUAGE

English: native speaker

French: fluent

Arabic: native speaker