

# NUR HAZIMAH MOHAMED NOR

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Goal-driven, energetic and passionate environmental scientist with global experience in water and air quality projects and expert in the microplastic pollution issue. Seeking employment in a multi-disciplinary and dynamic team where I can constantly learn and invent new solutions to protect natural resources and wildlife.

## EDUCATION

2017 – PRESENT

**PHD IN ENVIRONMENTAL SCIENCES**, WAGENINGEN UNIVERSITY AND RESEARCH

- Dissertation title: Microplastic ingestion and its associated chemical risks
- Awards: MENDAKI RDCA Distinction Award, LBKM Scholarship Award (2018 – 2019)

JANUARY 2015 – OCTOBER 2016

**MASTER OF ENGINEERING**, NATIONAL UNIVERSITY OF SINGAPORE

- Dissertation title: The influence of environmental factors on toxin production by *Cylindrospermopsis*

AUGUST 2009 – JULY 2013

**BACHELOR OF ENGINEERING**, NATIONAL UNIVERSITY OF SINGAPORE

- Dissertation title: Microplastics in Singapore's coastal mangrove ecosystems
- Exchange programme: Delft University of Technology
- Awards: Engineering Colours Award, Distinguished Leadership Award

## WORK EXPERIENCE

2017 – PRESENT

**PHD CANDIDATE**

WAGENINGEN UNIVERSITY AND RESEARCH, WAGENINGEN, NETHERLANDS

- Designed experiments and developed chemical models to evaluate the fate and dynamics of chemicals on environmental microplastics, including biofouled microplastics.
- Developed a microplastic human exposure assessment model to evaluate global microplastic exposure in children and adults, and potential impacts to human health.
- Collaborated with World Health Organization on review for microplastics in water.
- Supervised MSc students in their dissertation projects.

2014 – 2017

**RESEARCH ENGINEER**

NATIONAL UNIVERSITY OF SINGAPORE, SINGAPORE

- Designed and performed laboratory based and field experiments on cyanobacteria.
- Liaised with Public Utilities Board of Singapore.
- Supervised undergraduate students.

2013 – 2014

**RESEARCH ENGINEER**

SINGAPORE-DELFT WATER ALLIANCE, SINGAPORE

- Performed fieldwork and laboratory analysis for chemicals in biota, sediment and water.
- Designed and developed prototypes for indoor haze mitigation.

## TEACHING EXPERIENCE

2020

**LECTURER**, WAGENINGEN UNIVERSITY AND RESEARCH

- Trending Topics in Biology and Chemistry of Soil and Water (AEW-31806)

2020

**GUEST LECTURER**, WAGENINGEN UNIVERSITY AND RESEARCH

- Water Quality (AEW-31306); Theme: The Oceans

2019 – 2020

**TEACHING ASSISTANT**, WAGENINGEN UNIVERSITY AND RESEARCH

- Practical Aquatic Ecology and Water Quality (AEW-20706)

2019

**LECTURER**, IHE DELFT INSTITUTE FOR WATER EDUCATION

- Water Quality Assessment and Monitoring (MSc. course)

2013 – 2016

**GUEST LECTURER**, NATIONAL UNIVERSITY OF SINGAPORE

- Water Quality Management (ESE5401): Introduction course on STELLA
- Environmental Engineering Fundamentals (ESE1001): Introductory on microplastics

2010 – 2015

**TUTOR/MENTOR**, MENDAKI (SINGAPORE)

- English, Mathematics and Science (primary and secondary level)

## SKILLS

- Numerical modelling
- Spatial modelling
- R
- Python
- MS office
- Molecular microbiology techniques
- Chemical analytical techniques (GC-ECD, GC-MS)
- Exceptional oral and written communication
- Fluent in English and Malay

## ACTIVITIES & INTERESTS

- Environmental conservation
- Climbing
- Hiking
- Travelling

# APPENDIX

## PUBLICATIONS

### **Lifetime accumulation of microplastic in children and adults**

**Mohamed Nor, N. H.**, Kooi, M., Diepens, N. J., Koelmans, A. A., Submitted revisions, In: Environmental Science and Technology.

### **Weight of evidence for the microplastic vector effect in the context of chemical risk assessment**

Koelmans, A. A., Diepens, N. J., **Mohamed Nor, N. H.**, 2021 (Publication in progress), Nature Publishing Group, Springer Open Press.

### **Solving the non-alignment of methods and approaches used in microplastic research in order to consistently characterize risk**

Koelmans, A. A., Redondo, P. H., **Mohamed Nor, N. H.** & Kooi, M., 4 Sept 2020, In: Environmental Science and Technology.

### **Microplastics in freshwaters and drinking water: Critical review and assessment of data quality**

Koelmans, A. A., **Mohamed Nor, N. H.**, Hermsen, E., Kooi, M., Mintenig, S. M. & De France, J., 15 May 2019, In: Water Research. 155, p. 410 – 422

### **Environmental factors influence cylindrospermopsin production of *Cylindrospermopsis raciborskii* (CR12)**

**Mohamed Nor, N. H.**, Te, S. H., Mowe, M. A. D. & Gin, K. Y. H., Mar – Apr 2019, In: Journal of Plankton Research. 41 (2), p. 114 – 126

### **Transfer of PCBs from microplastics under simulated gut fluid conditions is biphasic and reversible**

**Mohamed Nor, N. H.** & Koelmans, A. A., 14 Jan 2019, In: Environmental Science and Technology. 53 (4), p. 1874 – 1883

### **Draft genome sequence of *Cylindrospermopsis* sp. Strain CR12 extracted from the minimetagenome of a nonaxenic unialgal culture from a tropical freshwater lake**

**Mohamed Nor, N. H.**, Tan, B. F., Te, S. H., Thompson, J. R. & Gin, K. Y. H., 11 Feb 2016, In: Genome Announcements. 4 (1), e01726-15

### **Microplastics in Singapore's coastal mangrove ecosystems**

**Mohamed Nor, N. H.** & Obbard, J. P., 15 Feb 2014, In: Marine Pollution Bulletin. 79 (1 – 2), p. 278 – 283

## CONFERENCE PROCEEDINGS

### **Lifetime accumulation of microplastic in children and adults**

**Mohamed Nor, N. H.**, Kooi, M., Diepens, N. J., Koelmans, A. A., In: MICRO 2020 International conference, Lanzarote, Spain. Oral presentation (Online).

### **Effect of lipid digestion on PCBs transfer from microplastics during *in vitro* digestion**

**Mohamed Nor, N. H.**, Niu, Z. & Koelmans, A. A., In: SETAC Europe 29<sup>th</sup> Annual Meeting, Helsinki, Finland. Oral presentation.

**Do chemicals transfer to or from microplastics in the gut?**

**Mohamed Nor, N. H.** & Koelmans, A. A., In: Micro 2018 International conference, Lanzarote, Spain. Oral Presentation.

**Dynamics of chemical transfer on microplastic in gut**

**Mohamed Nor, N. H.**, Tsaroucha, F., Chen, Y., Huang, W. & Koelmans, A. A., In: 6<sup>th</sup> International Marine Debris Conference, San Diego, USA. Oral presentation.

**Responses of cylindrospermopsin production to varying light intensities by *Cylindrospermopsis* sp. isolated from tropical waters**

**Mohamed Nor, N. H.**, Te, S. H. & Gin, K. Y. H., In: 11<sup>th</sup> IWA symposium on tastes, odours & algal toxins in water, Sydney, Australia. Oral presentation.

**Influence of phosphorus on growth and cylindrospermopsin production of a tropical *Cylindrospermopsis* strain**

**Mohamed Nor, N. H.**, Te, S. H. & Gin, K. Y. H., In: 10<sup>th</sup> International conference on toxic cyanobacteria. Oral presentation.

**Microplastics in Singapore's coastal mangrove ecosystems**

**Mohamed Nor, N. H.** & Obbard, J. P., In: Micro 2016, Lanzarote, Spain. Oral presentation.

## **ADVANCE COURSES**

**Teaching in the international classroom.** October 2019

**Advanced statistics course design of experiments.** 19 – 21 December 2018

**Uncertainty propagation in spatial environmental modelling.** 10 – 14 December 2018

**Statistical uncertainty analysis of dynamic models.** 11 – 15 December 2017

**Speciation and bioavailability of metals, organics and nanoparticles.** 6 – 10 November 2017