

Mi Nguyen

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Department of Civil and Environmental Engineering
Berkeley Water Center
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EDUCATION

PhD **University of California, Berkeley**, Environmental Engineering, expected December 2014
MS **University of California, Berkeley**, Environmental Engineering, 2010
BEng **Ho Chi Minh City-University of Technology**, Environmental Engineering, 2008

RESEARCH EXPERIENCE

University of California, Berkeley, Department of Civil and Environmental Engineering, 2009-present
Researcher, Kara L. Nelson (Advisor)
Lead a research project on designing unit process wetlands to optimize removal of bacteria and viruses via sunlight inactivation.
Mentor undergraduate and graduate students in lab research projects.

Ho Chi Minh City-University of Technology, Department of Environment, 2006-2008
Researcher, The-Vinh Nguyen (Advisor)
Conduct a research project on applying TiO₂-based photocatalysts in removing fecal indicator bacteria in clear water.

TEACHING EXPERIENCE

University of California, Berkeley, Department of Civil and Environmental Engineering
Teaching assistant
Control of Water-Related Pathogens, Spring 2014
Teach laboratory sessions for a group of 25 graduate students.
Introduction to Environmental Engineering, Fall 2011
Teach discussion sessions for a group of 40-50 undergraduate students.

WORKING EXPERIENCE

Green Tech Inc., Ho Chi Minh City, Vietnam, 2008-2009
Environmental Engineer
Conduct an Environmental Impact Assessment report for a factory in Ben Tre Industrial Park, Vietnam.
Conduct research on improving performance of membrane bioreactors in treating domestic wastewater.

FELLOWSHIP AND AWARDS

Vietnam Education Foundation Fellowship, 2009
DAAD Sur-Place-Scholarship, 2006
TOYOTA Vietnam Foundation Scholarship, 2006, 2007

PUBLICATIONS

Silverman, A.; **Nguyen, M. T.**, Nelson, K. L. "Sunlight inactivation of viruses in an open-water natural wastewater treatment system: Modeling endogenous and exogenous inactivation rates in the presence of light-attenuating compounds and photosensitizers". *Environ. Sci. Technol.* 2015

Nguyen, M. T.; Silverman, I. A.; Nelson, K. L. "Sunlight inactivation of MS2 coliphage in the absence of photosensitizers: Modeling the endogenous inactivation rate using a photoaction spectrum". *Environ. Sci. Technol.* 2014

Jasper, J. T.; **Nguyen, M. T.**; Jones, Z. L.; Ismail, N. S.; Sedlak, D.L.; Sharp, J. O.; Luthy, R. G.; Horne, A. J.; Nelson, K. L. "Unit process wetlands for treatment of municipal wastewater effluent". *Environ. Engi. Sci.* 2013

MANUSCRIPTS IN PROGRESS

Nguyen, M. T.; Jasper, J. T.; Nelson, K. L. "Sunlight inactivation of fecal indicator bacteria in an open-water natural wastewater treatment system: Modeling endogenous and exogenous inactivation rates in the presence of light-attenuating compounds and photosensitizers". *Water Research.* (in preparation)

Nguyen, M. T.; Wenk, J.; Nelson, K. L. "Natural photosensitizers in constructed unit process wetlands: Spectroscopic characterization, production of reactive species and effect on inactivation of indicator organisms". *Environ. Sci. Technol.* (in preparation)

Hendrickson, T.; **Nguyen, M. T.**, Nelson, K. L. "Life-cycle Perspectives for Urban Decentralized Wastewater Treatment: Environmental Performance of Wastewater Systems". *Environ. Sci. Technol.* (in preparation)

PRESENTATIONS AND POSTERS

Nguyen, M. T.; Wenk, J., Nelson, K. L. "Natural photosensitizers in constructed unit process wetlands: Spectroscopic characterization, production of reactive species and effect on inactivation of indicator organisms". Gordon Research Conference and Seminar: Environmental Sciences: Water, 2014, Holderness, NH, USA (poster)

Nguyen, M. T.; Nelson, K. L. "Development of a predictive model for direct inactivation of MS2 by sunlight". American Society for Microbiology Annual General Meeting, 2012, San Francisco, CA, USA (poster)

Nelson, K. L.; **Nguyen, M. T.** "A novel pond design for more efficient disinfection". IWA Specialist Group Conference on Ponds Technology: Advances and Innovations in Pond Treatment Technology, 2013, Cartagena, Colombia (presentation)

REFERENCES

Kara L. Nelson – Research advisor
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