

# TIMOTHY R. JULIAN

Curriculum Vitae and Publication List

## Personal Data

Department of Environmental Microbiology  
Eawag, Swiss Federal Institute of Aquatic Science and Technology  
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## Professional Experience

2014-Present	<b>Group Leader</b> , Pathogens and Human Health, Dept. of Environmental Microbiology, Eawag, Dübendorf, Switzerland
2017-Present	<b>Research Scientist</b> , Ecosystems and Health Epidemiology, Epidemiology and Public Health, Swiss Tropical and Public Health Institute, Basel, Switzerland
2014-Present	<b>Lecturer</b> , Dept. of Environmental Systems Sciences, ETH Zurich, Zurich, Switzerland
2012-2014	<b>Assistant Scientist</b> , Dept. of Environmental Health Sciences, Johns Hopkins Bloomberg School of Public Health, Baltimore, USA

## Education and Training

2011-2012	<b>Postdoctoral Fellowship</b> , Johns Hopkins Bloomberg School of Public Health, Environmental Health Sciences, Baltimore, USA, <i>Mentor</i> : Prof. Kellogg J. Schwab
2006-2010	<b>Ph.D.</b> , Stanford University, Dept. of Civil and Environmental Engineering, Stanford, USA, <i>Advisor</i> : Prof. Alexandria B. Boehm
2004-2006	<b>M.Sc.</b> , Stanford University, Dept. of Civil and Environmental Engineering, Stanford, USA
2000-2004	<b>B.Sc.</b> , Cornell University, Dept. of Biological and Environmental Engineering, Ithaca, USA

## Mentoring

### *Postdoctoral Fellow Supervision*

2018-Present	<b>Dr. Elyse Stachler</b>
2018-Present	<b>Dr. Céline Jacquin</b>
2017-Present	<b>Dr. Sara Beck</b>
2016-Present	<b>Dr. Maria Camila Montealegre</b>
2016	<b>Dr. David Diston</b> , <i>now Research Development Manager, University of York, United Kingdom</i>
2015-2016	<b>Dr. Mi Nguyen</b> , <i>now Group Leader, Environmental Engineering Research, Nguyen Tat Thanh University, Vietnam</i>
2015-2016	<b>Dr. Tala Navab Daneshmand</b> , <i>now Assistant Professor, Dept. of Chemical, Biological and Environmental Engineering, Oregon State University, USA</i>

### *Ph.D. Thesis Supervision*

2015-2018	<b>Ana Karina Pitol Garcia</b> , Virus transfer at the skin-liquid interface, EAWAG / EPFL. <i>Supervisor</i> : Timothy R. Julian, <i>Academic Advisor</i> : Prof. Tamar Kohn (EPFL)
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*Ph.D. Dissertation Committee Member*

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| 2018 | <b>Karen Gallendat</b> , Surface disinfection efficacy and effectiveness assessment for infectious disease outbreaks, Tufts University, Medford, USA, <i>Advisor</i> : Prof. Daniele Lantagne |
| 2017 | <b>Qingxia Zhong</b> , Genotypic, phenotypic and mechanistic insights into viruses with resistance to common water disinfectants, EPFL, <i>Advisor</i> : Prof. Tamar Kohn                     |
| 2015 | <b>Loic Decrey</b> , Virus inactivation in human or animal waste, EPFL, <i>Advisor</i> : Prof. Tamar Kohn   |
| 2014 | <b>Antonius Armanious</b> , Interactions of viruses with dissolved organic matter adlayers<br>ETH Zurich, <i>Advisor</i> : Dr. Michael Sander   |

*M.Sc. Thesis Supervision*

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| 2018 | <b>Tobias Stucky</b> , Greywater monitoring in NEST, ETH Zurich   |
| 2018 | <b>Franziska Genter</b> , Evaluation of RUG Substrate for <i>E. coli</i> detection, ETH Zurich  |
| 2018 | <b>Isabelle Kunz</b> , Online monitoring for greywater reuse in NEST, ETH Zurich  |
| 2018 | <b>Magdalena Gisiger</b> , Online monitoring for greywater reuse in NEST, ETH Zurich  |
| 2017 | <b>Steven Schmid</b> , Bioinformatics pipeline for digital sequencing of antibiotic resistance genes,<br>ETH Zurich   |
| 2017 | <b>Hanna Schiff</b> , Massive multiplexing for digital sequencing of antibiotic resistance genes, ETH<br>Zurich   |
| 2017 | <b>Franziska Böni</b> , Growth of <i>E. coli</i> in Bangladeshi soils, ETH Zurich   |
| 2016 | <b>Hasitha Navado Vithanage</b> , Quantifying pathogen exposures from agricultural land<br>application of human excreta in Vietnam, UNESCO-IHE, Netherlands |
| 2016 | <b>Lukas Allemann</b> , Growth of microorganisms in treated greywater as part of the Blue Diversion<br>AUTARKY Project, ETH Zurich                          |

*B.Sc. Thesis Supervision*

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| 2018 | <b>Tabea Nydegger</b> , Optimizing detection of antibiotic resistant bacteria in fecal samples, ETH<br>Zurich |
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*Student Research Supervision*

I have also supervised the research of four high school students, one intern, six undergraduate students, and five graduate students outside of the scope of a thesis.

**Teaching**

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| 2017-2018  | <b>Praktikum Mikrobiologie</b> , ETH Zurich, Guest Lecturer (2017), Lecturer (2018)  |
| 2016-2018  | <b>Case Studies in Environment and Health</b> , ETH Zurich, Lecturer   |
| 2016-2018  | <b>Nutrition for Health and Development</b> , ETH Zurich, Guest Lecturer   |
| 2014-2018  | <b>Human Health, Nutrition and Environment: Term Paper</b> , ETH Zurich, Lecturer  |
| 2012       | <b>Issues for Water and Sanitation in Tropical Environmental Health</b> , Johns Hopkins<br>Bloomberg School of Public Health, Guest Lecturer |
| 2012, 2014 | <b>Industrial Hygiene Laboratory</b> , Johns Hopkins Bloomberg School of Public Health, Guest<br>Lecturer                                    |
| 2012-2014  | <b>Water, Sanitation, and Hygiene Seminar Series</b> , Johns Hopkins Bloomberg School of Public<br>Health, Coordinator                       |
| 2010       | <b>Water, Public Health, and Engineering</b> , Stanford University, Guest Lecturer   |
| 2009-2010  | <b>Applied Environmental Statistics Workshop</b> , Stanford University, Coordinator  |
| 2009-2010  | <b>Environmental Toxicants</b> , Stanford University, Guest Lecturer   |
| 2006-2010  | <b>Environmental Health Microbiology</b> , Stanford University, Laboratory Instructor  |
| 2005-2008  | <b>Introduction to Human Exposure Analysis</b> , Stanford University, Coordinator (2007-2008),<br>Teaching Assistant (2005-2006)             |
| 2003       | <b>Introduction to JAVA Programming</b> , Cornell University, Teaching Assistant   |

## Service

<i>Journal Reviewer</i>	American Journal of Tropical Medicine & Hygiene; Current Pediatric Reviews; Environment, Development, and Sanitation; Environmental Science & Technology; Environmental Science & Technology Letters; Environmental Science: Processes & Impacts; Environmental Science: Water Research & Technology; Food & Environmental Virology; Health Security; International Journal of Hygiene & Environmental Health; International Journal of Environmental Research & Public Health; Journal of Applied Microbiology; Journal of Water, Sanitation & Hygiene for Development; PLOS Computational Biology, PLOS One; PLOS Pathogens; Risk Analysis; Science of the Total Environment; Toxics; Water Research; Water Science & Technology: Water Supply
<i>Proposal Reviewer</i>	Deutsche Forschungsgemeinschaft (DFG); International Center for Diarrheal Disease Research, Bangladesh; Research for Health in Humanitarian Crises (R2HC)
<i>Guest Editor</i>	Frontiers in Microbiology: <i>Microbial Safety in Water Resources</i> (special issue)

## Honors, Accreditations, and Awards

2017	Outstanding Reviewer for <i>Environmental Science: Water Research &amp; Technology</i>
2009	Best Paper, <i>Risk Analysis</i>
2007-2010	U.S. Environmental Protection Agency STAR Fellowship (\$111,000)
2007	Quantitative Microbial Risk Assessment Summer Institute Travel Award (\$1,000)
2006	Shah Family Fund Fellowship to Support Research on Catastrophic Risk (\$48,000)
2004	Stanford Environmental Engineering and Science Masters Fellowship (\$48,000)
2004	New York State Intern Engineer Registration
2003	Tau Beta Pi Engineering Honor Society Inductee
2002	Alpha Epsilon Agricultural and Biological Engineering Honor Society Inductee

## Funding Participation

### External

<i>Pending</i>	Driving environmental interventions for enteric disease with human-environment contact patterns. <i>U.S. National Institutes of Health</i> (USD 2'500'000 / 5 years). PIs: Eisenberg JNS (University of Michigan), Eisenberg M (University of Michigan). co-I: <b>Julian TR.</b>
2018-2020	Impact of water chlorination on children's carriage of antimicrobial resistant bacteria. <i>Thrasher Research Foundation</i> (USD 321'959 / 2 years). PI: <b>Julian TR.</b> co-Is: Pickering AJ (Tufts University), Luby S (Stanford University), Islam MA (icddr,b), Lanza VF (Hospital Universitario Ramón y Cajal)
2018-2021	MultiCarboVir: Re-usable, surface modified multi-walled carbon nanotubes as efficient agents for the removal of virus pathogens from drinking water. (CHF 1'000'000 / 3 years, <i>Subcontract</i> : CHF 250'000 / 3 years) PI: Graule T (EMPA). Co-Is: Salentinig S (EMPA), <b>Julian TR</b> ( <i>Scientific Lead at Eawag</i> ), Maniura K (EMPA), Wick P (EMPA), Morgenroth E (Eawag), Marks S (Eawag).
2016-2017	Co-occurrence of heavy metal and antibiotic resistance in microorganisms due to arsenic contamination in water insecure areas of Bangladesh <i>REACH: Improving water security for the poor</i> (GBP 50'000 / 1 year). PI: Islam MA (icddr,b). co-Is: <b>Julian TR</b> , Levy K (Emory University), Kile M (Oregon State University), Navab Daneshmand T (Oregon State University), Mattioli M (U.S. CDC)
2016-2017	Massive sample pooling and sequencing for prevalence rates. <i>Bill and Melinda Gates Foundation</i> (USD 100'000 / 18 months). PI: <b>Julian TR.</b> co-I: Tamminen M (Eawag)
2015-2018	Growth kinetics and gene transfer of enteric and environmental <i>E. coli</i> in domestic settings. <i>Swiss National Science Foundation</i> (CHF 397'000 / 3 years). PI: <b>Julian TR.</b>
2015-2017	Blue Diversion AUTARKY. <i>Bill and Melinda Gates Foundation</i> (USD 2'282'507 / 2 years). PI: Udert K (Eawag).

## Internal

2016-2020	Water Hub in NEST, <i>Eawag Discretionary Funding</i> (CHF 1'400'000 / 4 years). PI: Morgenroth E (Eawag). co-Is: Gebauer H, Hammes F, Larsen T, Strande L, Udert K, <b>Julian TR</b> .
2015-2017	Combining environmental psychology with microbiology for understanding and improving household hygiene in developing countries, <i>Eawag Discretionary Funding</i> (CHF 124'069 / 15 months). PIs: Mosler HJ (Eawag), <b>Julian TR</b> .
2014-2017	Virus transfer at the skin/liquid interface and associated microbial risks during urine collection in Durban, South Africa, <i>Eawag Discretionary Funding</i> (CHF 331'922 / 3 years). PIs: <b>Julian TR</b> , Kohn T (EPFL).

## Presentations

### Invited Talks

- Modeling Bacteria and Virus Transmission at the Human-Environment Interface: Case Studies from Bangladesh, Tanzania, South Africa, and Vietnam, 2018, Biointerfaces Laboratory, EMPA, St. Gallen, Switzerland
- Modeling microbial exposures using time series of sequential short contact events, 2018, MIDAS group, Department of Epidemiology, University of Michigan, USA
- Environmental Transmission of Enteric Bacteria: Lessons from Bangladesh, Tanzania, Vietnam, U.S.A, and Zimbabwe. Environmental Engineering Seminar Series. 2017. EPFL, Lausanne, Switzerland.
- Survival and Growth of Bacterial and Viral Pathogens in Treated and Stored Greywater: Lessons from the Blue Diversion AUTARKY Toilet. 2017. KAUST Research Conference: Wastewater from a pollutant requiring treatment to a valuable resource, King Abdullah University of Science and Technology (KAUST), Saudi Arabia
- Massive Sample Pooling and Sequencing to Obtain Antibiotic Resistance Prevalence Rates. 2016. Grand Challenges Annual Conference, London, United Kingdom
- Environmental Transmission of Diarrheal Diseases Varies by Etiology: Implications for Interventions. 2016. World Health Organization
- Importance of Environmental Hygiene in Enteric Disease Transmission. 2016. Swiss Tropical Public Health Institute, Basel, Switzerland
- Food, Fomites, Hands, and Soil: Environmentally Mediated Transmission of Infectious Diseases. 2013. Environmental Health Sciences Division Seminar, University of Minnesota.
- Characterizing Fecal Contamination on Hands and Surfaces in Tanzania: Background, Rationale, and Future Research. 2011. Johns Hopkins University Water, Sanitation, and Hygiene Group.
- Fomites in Infectious Disease Transmission: Health and Microbial Contamination on Hands and Surfaces. 2010. Environmental Health and Sciences Seminar. Johns Hopkins Bloomberg School of Health.
- Hygiene, Health, and the Microbial Environment of Child Care Centers. 2010. Environmental Engineering and Science Seminar Series, Stanford University.

## Conferences

### *Presenting Author Only*

- **Julian TR**. High time-resolution simulation of *E. coli* on Vietnamese farmers' hands based on videography and environmental microbial sampling. 2018. Swiss Society for Microbiology Annual Congress, Lausanne, Switzerland.
- Montealegre MC, Roy S, Navab-Daneshmand T, Hossain MI, Faruque ASG, Islam MA, **Julian TR**. Are Soils in Households Plots Reservoirs for Antimicrobial Resistant and Diarrheagenic *Escherichia coli* in Bangladesh? 2018. UNC Water Microbiology Conference, Chapel Hill, NC, USA
- **Julian TR**. Side Event: Safety for Greywater Reuse at Building Scale. 2018. UNC Water Microbiology Conference, Chapel Hill, NC, USA
- **Julian TR**, Bischel HN, Pitol AK, Kohn T, Harada, H. Integrated videography and environmental microbial sampling to model hand contamination: Insights from Tanzania, Vietnam and South Africa. 2017. 4th International Conference on Prevention and Infection Control, Geneva, Switzerland
- **Julian TR**. Side Event: Quantifying human exposures for enteric disease transmission: Methods and applications. 2017. UNC Water Microbiology Conference, Chapel Hill, NC, USA
- **Julian TR**, Vithanage HSK, Li CM, Pitol AK, Canales R, Nguyen PHL, Fujii S, Harada H. High resolution activity data to model risks from human excreta use in agriculture: Case study from Vietnam. 2017. UNC Water Microbiology Conference, Chapel Hill, NC, USA.

- **Julian TR**. Genotypic and Phenotypic Characterization of *Escherichia coli* Isolated from Feces, Hands, and Soils in Rural Bangladesh via the Colilert Quanti-Tray System. 2015. 18th International Symposium on Health-Related Water Microbiology, Lisbon, Portugal
- **Julian TR**. Exposures to Environmental Pathogens: Modeling pathogen transmission at the Human/Environment Interface. 2014. Mathematical modeling of Leptospira infection, transmission, and intervention strategies: a NIM-BioS Conference, Knoxville, TN, USA
- **Julian TR**, MacDonald L, Guo Y, Marks SJ, Kosek M, Yori PP, Pinedo SR, Schwab KJ. Fecal Indicator Bacteria Contamination and Household Demand for Surface Disinfection Products: A Case Study from Peru. UNC Water and Health Conference 2013, Chapel Hill, NC, USA
- **Julian TR**, Pickering AJ, Leckie JO, Boehm AB. Fecal bacteria on fomites and hands are associated with increased risk of respiratory illness in child care centers. ISES Conference 2012, Seattle, WA, USA
- **Julian TR**, Pickering AJ, Marks SJ, Boehm AB, Davis J, and Schwab KJ. 2011. Level and distribution of fecal indicator bacteria and viral pathogens in soil and on fomites. UNC Water and Health 2011, Chapel Hill, NC, USA
- **Julian TR**, Canales RA, Leckie JO, and Boehm AB. 2009. A model of exposure to rotavirus from nondietary ingestion iterated by simulated intermittent contacts. Joint ISEA/ISEE Conference 2008, Pasadena, CA, USA
- **Julian TR**, AuYeung W, Canales RA, and Leckie JO. 2005. Using block resampling to simulate micro- data from existing micro- and macro-level activity data. ISEA Conference 2005, Tucson, AZ, USA
- **Julian TR**, Timmons MB, Vinci BJ. 2004. Modeling alkalinity, pH, and carbon dioxide levels in recirculating aquaculture systems. Aquaculture America Conference 2004, Honolulu, HI, USA

## Patents

- Tamminen MV, **Julian TR**, Spaak J, Caduff L, Schiff H, Accurate and massively parallel quantification of nucleic acid. *Patent Pending*
- **Julian TR**, Larivè O, Morgenroth E, Udert K, Ziemba C. Microbial nutrient-supplemented cleaning compositions, uses thereof and methods for wastewater regeneration. *Patent Pending*

## Publications

*Members of the Pathogens and Human Health Group are underlined. Publications and associated citations are also available via Google Scholar:*

<https://scholar.google.com/citations?user=EbsjiNMAAAAJ&hl>.

## Published

2018

- Montealegre MC, Roy S, Böni F, Hossain MI, Navab-Danashmend T, Caduff L, Faruqe ASG, Islam AM, **Julian TR**. 2018. Risk factors for detection, survival and growth of antimicrobial-resistant and pathogenic *Escherichia coli* in soils in rural Bangladesh. *Applied and Environmental Microbiology*. 84(24). [HTML] (**Paper 205**)
- Pitol AK, Boehm AB, Bischel HB, Kohn T, **Julian TR**. 2018. Transfer of enteric viruses adenovirus and coxsackievirus and bacteriophage MS2 from liquid to human skin. *Applied and Environmental Microbiology* 84(22). [HTML]
- Rotem A, Serohijos AWR, Change CBC, Wolfe JT, Fischer AE, Mehoke TS, Zhang H, Tao Y, Ung WL, Choi J-M, Rodrigues JV, Kolawole AO, Koehler SA, Wu S, Thielen PM, Cui N, Demirev PA, Giacobbi NS, **Julian TR**, Schwab KJ, Lin JS, Smith TJ, Pipas JM, Wobus CE, Feldman AB, Weitz DA, and Shakhovich EI. 2018. Evolution on the biophysical fitness landscape of an RNA virus. *Molecular Biology and Evolution*. Accepted. [HTML]
- **Julian TR**, Bustos C, Kwong LH, Badilla AD, Lee J, Bischel HN, Canales RA. 2018. Quantifying human-environment interactions using videography in the context of infectious disease transmission. *Geospatial Health* 13(631): 195-97. [HTML]
- **Julian TR**, Vithanage HSK, Chua ML, Kuroda M, Pitol AK, Pham Hong Lien N, Canales R, Fujii S, Harada H. 2018. High time-resolution simulation of *E. coli* on hands reveals large variation in microbial exposures amongst Vietnamese farmers using human excreta for agriculture. *Science of the Total Environment*. 635:120-131. [HTML] (**Paper 204**)
- Hong P, **Julian TR**, Pype ML, Jiang S, Nelson K, Graham D, Manaia C, Pruden A. 2018. Reusing treated wastewater: Consideration of the safety aspects associated with antibiotic resistant bacteria and resistance genes. *Water*. 10(3): 244. [HTML]

- [Navab-Daneshmand T](#), Friedrich MND, Gächter M, [Montealegre MC](#), Mlambo LS, Nhiwatiwa T, Mosler H-J, **Julian TR**. 2018. *E. coli* contamination across multiple environmental reservoirs (soils, hands, drinking water and handwashing water) in urban Harare: Correlations and risk factors. *American Journal of Tropical Medicine and Hygiene*. 98(3): 803-813. [\[HTML\]](#)

## 2017

- [Nguyen MT](#), [Allemann L](#), Ziemba C, Larive O, Morgenroth E, **Julian TR**. 2017. Controlling bacterial pathogens in water for reuse: Treatment technologies for water recirculation. *Frontiers in Environmental Sciences*. 19 Dec 2017. [\[HTML\]](#)
- [Pitol AK](#), [Bischel HB](#), [Kohn T](#), **Julian TR**. 2017. Virus transfer at the skin-liquid interface. *Environmental Science and Technology*. 51(24): 14417-14425. [\[HTML\]](#) (**Paper 203**)
- Friedrich MND, **Julian TR**, [Kappler A](#), [Nhiwatiwa T](#), [Mosler H-J](#). 2017. Handwashing, but how? Handwashing technique influences microbiological effectiveness. *American Journal of Infection Control*. 45(3):228-233. [\[HTML\]](#)

## 2016

- **Julian TR**. 2016. Environmental transmission of diarrheal pathogens in low and middle income countries. *Environmental Science: Processes and Impacts*. 18: 944 [\[HTML\]](#) (**Paper 202**)
- **Julian TR**, [Baugher JD](#), [Rippinger C](#), [Pinekenstein R](#), [Kolawole AO](#), [Mehoke T](#), [Wobus CE](#), [Feldman A](#), [Pineda FJ](#), [Schwab KJ](#). 2016. Murine norovirus (MNV-1) exposure in vitro to the purine nucleoside analog Ribavirin increases quasispecies diversity. *Virus Research*. 211: 165 [\[HTML\]](#)

## 2015

- [Fuhrmeister ER](#), [Schwab KJ](#), **Julian TR**. 2015. Estimates of nitrogen, phosphorus, biological oxygen demand, and fecal coliform entering the environment due to inadequate sanitation treatment technologies in 108 low and middle income countries. *Environmental Science and Technology*. 41(19): 11604-11611. [\[HTML\]](#)
- **Julian TR**, [Pickering AJ](#). 2015. Modeling microbial exposures in peri-urban Tanzania using integrated first-person perspective videography and microbial sampling. *PLoS ONE*. 10(8): e0136158. doi:10.1371/journal.pone.0136158 [\[HTML\]](#)
- **Julian TR**, [Schwab KJ](#). 2015. Water and Foodborne Contamination. in [Bartram J](#), with [Baum R](#), [Coclanis PA](#), [Gute DM](#), [Kay D](#), [McFadyen S](#), [Pond K](#), [Roberson W](#), [Rouse MJ](#) (eds). *Routledge Handbook of Water and Health*. London and New York: Routledge. 159-170. [\[HTML to Ebook\]](#)
- [Ntozini R](#), [Marks SJ](#), [Gerema G](#), [Helyar W](#), [Mangwadu G](#), **Julian TR**, [Schwab KJ](#), [Mbuya MNN](#), [Humphrey JH](#), [Moulton LH](#), [Zungu LI](#). 2015. Assessing household water access and sanitation coverage using geographic information systems and spatial analysis within the SHINE Trial study in rural Zimbabwe. *Clinical Infectious Diseases*. 61 (supp 7): S716-S725 [\[HTML\]](#)
- **Julian TR**, [Islam MA](#), [Pickering AJ](#), [Roy S](#), [Fuhrmeister ER](#), [Ercumen A](#), [Harris A](#), [Bishai J](#), [Schwab KJ](#). 2015. Genotypic and phenotypic characterization of *Escherichia coli* isolated from feces, hands, and soils in rural Bangladesh using the Colilert Quanti-Tray System (IDEXX). *Applied and Environmental Microbiology*. 81 (5):1735-1743. [\[HTML\]](#)

## 2014

- [Hospodsky D](#), [Pickering AJ](#), **Julian TR**, [Miller D](#), [Gorthala S](#), [Boehm AB](#), [Peccia J](#). 2014. Hand bacterial communities vary across two different human populations. *Microbiology*. 160(6): 1144-1152. [\[HTML\]](#)
- **Julian TR**, [Trumble JM](#), [Schwab KJ](#). 2014. Evaluating efficacy of field-generated mixed oxidants solutions on disinfection of fomites using MS2 and MNV-1 as pathogenic virus surrogates. *Food and Environmental Virology*. 6(2): 145-155. [\[HTML\]](#)

## 2013

- **Julian TR**, [MacDonald L](#), [Guo Y](#), [Marks SJ](#), [Kosek M](#), [Yori PP](#), [Pinedo SR](#), [Schwab KJ](#). 2013. Fecal indicator bacteria contamination of fomites and household demand for surface disinfection products a case study from Peru. *American Journal of Tropical Medicine and Hygiene*. 89 (5): 869-872. [\[HTML\]](#)
- **Julian TR**, [Pickering AJ](#), [Leckie JO](#), [Boehm AB](#). 2013. *Enterococcus* spp. on fomites and hands indicate increased risk of respiratory illness in child care centers. *American Journal of Infection Control*. 41(8): 728-733. [\[HTML\]](#)

**2012**

- Pickering AJ\*, **Julian TR\***, Marks SJ, Mattioli MC, Boehm AB, Schwab KJ, Davis J. 2012. Fecal contamination and diarrheal pathogens on surfaces and in soils among Tanzanian households with and without improved sanitation. *Environmental Science and Technology*. 46(11): 5736-5743. \*Joint Primary and Corresponding Authors [\[HTML\]](#)
- **Julian TR**, Schwab KJ. 2012. Challenges in environmental detection of human viral pathogens. *Current Opinion in Virology*. 2: 78-83. [\[HTML\]](#)

**2011**

- **Julian TR**, Tamayo FT, Leckie JO, Boehm AB. 2011. A comparison of surface sampling methods for virus recovery from fomites. *Applied and Environmental Microbiology*. 77:6918. [\[HTML\]](#)
- Pickering AJ, **Julian TR**, Mamuya S, Boehm AB, Davis J. 2011. Bacterial hand contamination among Tanzanian mothers varies temporally and following household activities. *Tropical Medicine and International Health*. 16:233. [\[HTML\]](#)

**2010**

- **Julian TR**, Leckie JO, Boehm AB. 2010. Virus transfer between fingertips and fomites. *Journal of Applied Microbiology*. 109:1868. [\[HTML\]](#)

**2009**

- **Julian TR**, Canales RA, Leckie JO, Boehm AB. 2009. A model of exposure to rotavirus from nondietary ingestion iterated by simulated intermittent contacts. *Risk Analysis* 29(5): 617-632. [\[HTML\]](#)
  - 2017. Erratum to “A model of exposure to rotavirus from nondietary ingestion iterated by simulated intermittent contacts.” *Risk Analysis* 37(8): 1628. [\[HTML\]](#)

**Trade Journal****2018**

- **Julian TR**. 2018. *Escherichia coli* in Harare Wie gelangt das Bakterium in die Haushalte und woher stammt es? *Aqua & Gas* 5: 60-66. [\[HTML to Publisher\]](#)
- **Julian TR**, Vithanage HSK, Pitol AK, Ronteltap M, Harada H. 2018. Videography to understand risks to farmers using human excreta. *Sandec News* 19: 28. [\[PDF to Issue\]](#)