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| **Michael Thomann** |  |

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| Date of birth | 9. February 1969 |
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| Nationality | Swiss |
|  | **Ein Bild, das Mann, Person, Anzug, Schlips enthält.  Automatisch generierte Beschreibung** |
| Function | Lecturer and group leader  |
|  | environmental and water technology |
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**Professional experience**

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| 02/20 to present | University of Applied Sciences and Arts FHNW, School of Life Sciences, Muttenz, SwitzerlandProfessor for environmental and water technology |
| 09/05 – 12/19 | HOLINGER AG, Liestal, SwitzerlandHead wastewater technologyDeputy head branch Liestal |
| 10/02 – 07/05 | BMG Engineering AG, Schlieren, SwitzerlandProject leader industrial wastewater treatment |
| 01/97 – 09/02 | EAWAG, Dübendorf, SwitzerlandResearch department “Process engineering” Prof. Dr. W. Gujer, Dr. sc. techn. ETH |
| 05/94 – 07/96 | ETH, Zurich, SwitzerlandScientific assistant Institute of Environmental Engineering, Prof. Dr. W. Gujer |

**Education**

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| 2002 | Dr. sc. techn., ETH Zurich, Switzerland |
| 1994 | Dipl. Civil Eng., ETH Zurich, Switzerland |
| 1988 | Matura D, Holbein-Gymnasium, Basel |

**Professional experience – Full-scale wastewater processes for the elimination of micropollutants**

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| 2014 – 2018 | ERZ, Wastewater treatment plant WWTP Zürich-Werdhölzli, SwitzerlandOverall project manager + project manager process technology, process unit for the elimina--tion of organic micropollutants with ozonation + sand filtration |
| 2013 – 2019 | Wastewater treatment plant WWTP Altenrhein, Thal, SwitzerlandOverall project manager and project manager process technology, process unit for the elimi-nation of organic micropollutants with an ozonation and a filtration with granular activated carbon |
| 2011 – 2014 | Wastewater treatment plant WWTP Neugut, Dübendorf, SwitzerlandOverall project manager + project manager process technology, first full-scale ozonation for the elimination of organic micropollutants in Switzerland |
| 2017 – 2019 | Wastewater treatment plant WWTP Flos, Wetzikon, SwitzerlandOverall project manager + project manager process technology, process unit for the elimi-nation of organic micropollutants with direct dosage of powdered activated carbon in an acti- vated sludge system |

**Professional experience – Industrial wastewater treatment and offgas treatment**

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| 2011 – 2019 | Wastewater treatment plant ARA Rhein AG, Pratteln, SwitzerlandOverall project manager + project manager process technology, flotation, upgrade sludge treatment |
| 2017 – 2019 | DSM Nutritional Products, Sisseln, SwitzerlandProject manager, feasibility study aerobic und anaerobic industrial upgrade of the waste-water treatment plant and offgas treatment, pilot plant study of a high-rate nitrification ina moving bed reactor |
| 2017 – 2019 | Roche Diagnostic International, Rotkreuz, SwitzerlandProject manager, feasibility study ozonation and filtration with granular activated carbon pharmaceutical wastewater, mass-flow model for effluent concentration prediction, lab tests for ozonation, fenton’s reagent and activated carbon adsorption |
| 2005 – 2012 | Wastewater treatment plant WWTP Hesperingen, LuxembourgProject manager process technology, nitrifying+denitrifying moving bed reactor, anaerobicmesophilic sludge treatment, offgas treatment |

**Professional experience – R&D-pilot projects for the elimination of micropollutants in WWTP**

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| 2016 – 2019 | Wastewater treatment plant WWTP Altenrhein, Thal, Switzerland - PilotplantProject manager, semi-industrial pilot plant ozonation and filtration with granular activated carbon, R&D-collaboration of HOLINGER with EAWAG (ecotoxicology) und FHNW(EU-project nextGen) |
| 2014 – 2016 | Wastewater treatment plant WWTP Neugut, Dübendorf - PilotplantProject manager, semi-industrial pilot plant ozonation and filtration with granular activated carbon and biological moving bed reactor, project “RETREAT”, R&D-collaboration of HOLINGER with EAWAG and WWTP Neugut |
| 2012 – 2015 | Wastewater treatment plant WWTP Flos, Wetzikon - PilotplantProject manager, full-scale pilot plant for powder activated carbon dosage into an activated sludge system, project “PAK im Belebtschlammsystem” funded by FOEN (Federal office for the environment) R&D-collaboration of HOLINGER with HSR (Hochschule Rapperswil) |
| 2013 – 2015 | Wastewater treatment plant WWTP Ergolz 1, Sissach - PilotplantProject manager, realisation of a full-scale pilot plant for dosage of powdered activated carbon in an existing sand filtration, project „Aktifilt“, R&D collaboration of HOLINGER with AIB (Amt für industrielle Betriebe), FHNW and EAWAG |
| 2008 – 2010 | Wastewater treatment plant WWTP Vidy, Lausanne - PilotplantProject manager, realisation of three full-scale pilot plants – biological treatment withmoving bed reactor, ozonation and ultrafiltration with powdered activated carbon ad-sorption, project „Micropoll“ funded by FOEN (Federal office for the environment), R&Dcollaboration of HOLINGER with STEP de Vidy, EPFL, EAWAG and Triform |
| 2008 – 2009 | Enhanced hospital wastewater treatment, Kantonsspital Baden - PilotplantProject manager, semi-industrial pilot plant, membrane bioreactor (MBR) for the en-hanced treatment of hospital wastewater, EU-Project „Pills”, R&D collaboration of HOLINGER with EAWAG and Kantonsspital Baden |

**Professional experience – expert studies**

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| 2020 | Technical guideline (VSA, Glattbrugg) – Analytikdaten in ARAProject manager, expert study, guideline for data quality control and uncertainty analysisfor wastewater treatment plant data |
| 2018 | FOEN (Federal office for the environment), BernProject manager, expert study, development of a new infrastructure cost model for the realization of the elimination of micropollutants in Swiss wastewater treatment plants |
| 2015 | Technical guideline (VSA, Glattbrugg) - Empfehlung Dimensionierungswassermenge und Redundanzen von Stufen zur Elimination von MikroverunreinigungenProject manager, expert study, Design guideline for upgrade of wastewater treatmentplants with organic micropollutant elimination processes |
| 2012 | FOEN (Federal office for the environment), BernExpert, review of the project report DIMES (Diffuse emissions of micropolluntants fromsettlements |

**Commissions**

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| IWAVSA | Member International Water AssociationMember VSA-Plattform „Mikropoll“Lectures “Anaerobe Schlammbehandlung” in VSA-education since 2011(Verband Schweizer Abwasserfachleute) |

**Languages**

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| German | Mother tongue |
| English | Fluently, CAE |
| French | Intermediate |
| Spanish | Intermediate |

**IT Knowledge**

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| MS-Office | Word, Excel, Powerpoint |
| Simulation | AQUASIM, ASIM, Matlab, Simulink |
| Various Software | S-Plus, LATEX, Matlab Statistic Toolbox |