

Christoph Knote

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Education

ETH Zürich, Switzerland
Doctor of sciences (equivalent to Ph.D.), 2012
Universität Trier, Germany
Diploma (equivalent to M. S.), Environmental Sciences, 2008

Professional experience

Meteorologisches Institut München
Fakultät für Physik, Ludwig-Maximilians-Universität, München, Germany
Akademischer Rat auf Zeit, 10/2014 - present

Atmospheric Chemistry Observation and Modeling Laboratory
National Center for Atmospheric Research (NCAR), Boulder (CO), USA
Postdoctoral scientist, 06/2012 - 09/2014

Laboratory for Air pollution and Env. Technology
Eidgenössische Materialprüfungsanstalt (Empa), Dübendorf, Switzerland
Postdoctoral scientist, 02/2012 - 06/2012
Ph.D. student, 01/2009 - 02/2012

Universität Trier
Trier, Germany
Student of Applied Environmental Sciences, 05/2004 - 12/2008

Servizio Idrometeorologico
ARPA Emilia Romagna, Bologna, Italy
Internship, 08/2007 - 11/2007

Hyperspectral Remote Sensing Group
Deutsches Luft- und Raumfahrtzentrum (DLR), Oberpfaffenhofen, Germany
Internship, 08/2006 - 10/2006

Selected Awards & Honors

NASA group achievement award for outstanding accomplishments, Studies of Emissions and Atmospheric Composition, Clouds and Climate Coupling by Regional Surveys (SEAC4RS), 2014

Early career researcher award at the 33rd International technical meeting on Air Pollution Modeling and its Application, Miami, FL, 2013

LEONARDO stipend for a 3 months internship at ARPA Emilia Romagna, Bologna, Italy, 2007

ERASMUS grant for a 6 months stay at the University of the Aegean, Mytilene, Greece, 2005-2006

Funding awarded

LMU, Fakultät für Physik, Studienzuschusskommission, 20 kEuro, 2016

LMUexcellent Nachwuchsförderungsfond, 40 kEuro, 2015

NCAR Advanced Study Program / Early Career Scientists Assembly travel grant, 2013

COST Action ES1004 short term scientific mission travel grant, 2012

EURASAP travel grant to the ACCENT/GLOREAM workshop, 2011

Professional activities

AGU fall meeting session co-convener and chair, 2014

Campaign contribution

NASA KORUS-AQ campaign, 2016: chemical forecasting / flight planning / model analysis

NCAR FRAPPE campaign, 2014: chemical forecasting / flight planning / model analysis

NASA SEAC4RS campaign, 2013: chemical forecasting

NSF SAS (NOMADSS) campaign, 2013: chemical forecasting / flight planning / model analysis

AQMEII regional chemistry transport model intercomparison, 2012 - 2015

Review activities

Peer reviews for Monthly Weather Review, Journal of Geophysical Research, Journal of Climate, Geoscientific Model Development, Atmospheric Chemistry & Physics, Atmospheric Environment

Review of NOAA Climate Program's Earth System Science (ESS) Program proposal

Visiting scientist

ACOM, NCAR, Boulder (CO), USA, 2015, 2016

School of Earth and Environment, U Leeds, UK, 2016

Workshops and tutorials attended

“Erfolgreich zur Professur! - Praxisseminar”, LMU Center for Leadership and People Management, Munich, Germany, 12/2015

UCAR/NCAR workshops on teaching, NCAR, Boulder, USA, 04/2013

Scalable Performance Analysis Tools for HPC Applications, CSCS, Manno, Switzerland, 01/2011

Multi-threaded Programming, Tuning and Optimization on Multi-Core MPP Platforms, EPFL, Lausanne, Switzerland, 12/2010

Aerosol train (<http://blogs.helsinki.fi/aerosoltrain/>), PSI, Switzerland, 06/2010

Introduction to Unified Parallel C / Co-Array Fortran, HLRS, Stuttgart, Germany, 05/2010

1st IfT Leipzig summer-school on atmospheric aerosols and clouds, Rabenberg, Germany, 08/2009

Parallel programming workshop, CSCS, Manno, Switzerland, 08/2009

Languages

German (native), English (fluent), Italian (fluent), French (basic), Spanish (basic)

Teaching experience

Meteorologisches Institut, Fakultät für Physik, LMU, München, Germany
Grenzschichtmeteorologie (Boundary layer meteorology, lecturer), Master
WS 2015/16, 2016/17

Meteorologisches Instrumentenpraktikum (Meteorological lab, lecturer), Bachelor
SS 2016

Übungen zur Physik der Atmosphäre (Physics of the atmosphere, exercises), Bachelor
SS 2015, SS 2016

Übungen zur Einf. in die Meteorologie I (Introd. to Meteorology I, exercises), Bachelor
SS 2015, SS 2016

Monte Carlo Strahlungstransfer (Monte Carlo Radiative Transfer, lecturer), Bachelor
SS 2015

Übungen zur Einf. in die Meteorologie II (Introd. to Meteorology II, exercises), Bachelor
WS 2014/15

WRF-Chem user workshop, NCAR, Boulder (CO), United States of America
Lecturer on MEGAN and biogenic emissions in WRF/Chem, 2014

Department of Chemistry & Biochemistry, CU, Boulder (CO), United States of America
Guest lecture in ATOC/CHEM-5151: Atmospheric Chemistry (Prof. J. L. Jimenez), 2012
Guest lecture in CHEM-6111: Special Topics in Analytical Chemistry (Dr. I. Ulbrich), 2012

COSMO user meeting, BTZ, Langen, Germany
Instructor for atmospheric chemistry modeling with COSMO-ART, 2012

Institute for Atmospheric and Climate Sciences, ETH Zürich, Switzerland
Numerical modeling of weather and climate (Prof. C. Schär, teaching ass.), 2010-2011
Introd. to Chemistry and Physics of the Atmosphere (Dr. D. Brunner, teaching ass.), 2012

Dept. of Env. Meteorology, Universität Trier, Germany
Teaching assistant for various courses, 2006 - 2008

Dept. of Remote Sensing, Universität Trier, Germany
Teaching assistant for statistics courses, 2005 - 2007

Theses supervised

Doctoral theses

Luke Conibear (U Leeds (UK), ongoing, co-supervision)

Masters Theses

Max Eckl (LMU, 2016), Pascal Polonik (LMU, ongoing), Julian Anet (ETHZ, 2010, co-supervision)

Bachelor Theses

Maximilian Ebert (LMU, 2016), Veronika Pörtge (LMU, 2016, co-supervision)

Select presentations

AGU fall meeting, San Francisco, CA, USA, 12/2016 (oral)

Graduate Seminar, ACInn, U Innsbruck, Austria, 10/2016 (oral, *invited*)

HAMMOZ workshop, ETH, Zurich, Switzerland, 02/2016 (oral)
Seminar of the biosphere-atmosphere interaction group, U Leeds, UK, 02/2016 (oral, *invited*)
AGU fall meeting, San Francisco, CA, USA, 12/2015 (oral)
WRF-Chem-DE community workshop, KIT, Garmisch-Partenkirchen, Germany, 09/2015 (oral)
15th WRF Users' workshop, Boulder, CO, USA, 06/2014 (oral)
Leipziger Meteorologisches Kolloquium, TROPOS, Leipzig, Germany, 05/2014 (oral, *invited*)
Int. tech. meeting on Air Poll. Modeling and its Application, Miami, FL, USA, 09/2013 (oral)
Chemistry Seminars, CU Boulder, Boulder, CO, USA, 10/2012 (oral)
Institutsseminar am IMK, KIT, Karlsruhe, Germany, 04/2012 (oral, *invited*)
CMAS annual conference, Chapel Hill, USA, 10/2011 (oral)
European Aerosol Conference, Manchester, UK, 09/2011 (oral)
12th annual EMEP/TFMM meeting, Zürich, Switzerland, 05/2011 (oral)
23rd Workshop on Trop. Chemical Transport Modeling, Copenhagen, Denmark, 01/2011 (oral)
International Aerosol Conference, Helsinki, Finland, 08/2010 (oral)