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Research Group



Jan 2017: Meetings DWD Data Assimilation Group with our partners from the HERZ Center on Data Assimilation from LMU Munich.

Current group members

Senior Scientists, Postdocs, Junior Scientists and PhD students (state January 2018)

Permanent Positions

Dr. Harald Anlauf (Radio Occultations, HPC, Covariances, ICON-DA, BACY)
Dr. Elisabeth Bauernschubert (Algorithms + Radar Data Assimilation)
Heinz-Werner Bitzer (MetBW, Radiance Assimilation)
Dr. Uli Blahak (Sinfony Project Leader and Radar Data Assimilation)
Alexander Creß (Data Monitoring, AMV, Scatterometer, WIND DA, ICON EDA)
Dr. Robin Faulwetter (Technical Coordinator Satellite Data Assimilation, Radiances Assimilation)
Dr. Christina Köpken-Watts (Leader Satellite Data Assimilation, Radiances Assimilation)
Dr. Martin Lange (Soil Moisture Analysis, Sea Surface Temperature, Snow etc.)
Prof. Dr. Roland Potthast (Head Data Assimilation, Algorithms for DA, Ensemble DA, Particle Filters etc.)
Dr. Hendrik Reich (Algorithms KENDA, COSMO BACY)
Dr. Andreas Rhodin (Chief Software Scientist Data Assimilation, Algorithms for DA)
Dr. Annika Schomburg (currently Co-Head of the HERz Centre for Boundary Layer Physics at Frankfurt)
Dr. Christoph Schraff (Leading KENDA, Ensemble DA, Operational High-Resolution DA)
Dr. Klaus Stephan (Radar Data Assimilation, GPS/GNSS Data in DA)
Dr. Olaf Stiller (Radiances Assimilation)
Daniel Egerer (Support Activities and Secretarial Work)

Temporary Positions and PhD Students (Principle

Supervisor)

Silke May (50%), 4/2015 - 10/2015, Assimilation of Satellite Radiances
Core Funding 2017-2020, [2015-]

Dr. Michael Bender, DWD, GPS/GNSS Assimilation/Tomography
SFP/IAFE 2015-2018, [2012-15]

Ana Fernandez del Rio, Satellite Radiance Operator
NWP-SAF 2017-2022, [2013-16]

Dr. Lisa Neef, Data Assimilation Seamless Integrated Forecasting System
IAFE Sinfony 08/2017-2021

Kristin Raykova (Satellite Data Assimilation)
IAFE ICON-SAT-IR 1 2016-2020

Dr. Stefanie Hollborn (Satellite Data Assimilation)
IAFE ICON-SAT-MW 2 2016-2018

Dr. Thomas Rösch (Reanalysis)
HErZ 2016-2019

Dr. Liselotte Bach, Data Assimilation of SEVIRI
IAFE Sinfony 2017-2021

Dr. Christian Welzbacher, Data Assimilation Algorithmic Development
IAFE Sinfony 2017-2021

Dr. Marc Pondrom, Eumetsat Fellowship
EUMETSAT 2017-2019

Dr. Stefan Declair, Data Assimilation for Renewable Energy
EWELINE 2017-2021, [2013-2017]

Priv-Doz. Dr. Axel Hutt (SEVIRI Data Assimilation)
IAFE KENDA-IR 2015-2019

Dr. Zoi Paschalidi, mFund Flottenwetterkarte
BMVI 10/2017-08/2020

Dr. Walter Acevedo, mFund Flottenwetterkarte
BMVI 11/2017-08/2020

Anne Walter, PhD Student No 16 (IR/MW Radiances, Particle Filter)
IAFE 2017-2019, [2015-17]

Jason Otkin, PhD Student No 14, Reading, Ensemble DA with Radiances
UoR/Uni Wisconsin 2015-2018

Babatunde Odunuga, PhD Student No 17, Reading DA model reconstruction
UoR/GOV 2015-2018

Jehan Alswaihli, PhD Student No 15, Reading, DA for Neural Delay Equations
UoR/GOV 2014-2017

Sinfony = "Seamless INtegrated FOrecastiNg sYstem", a system bringing nowcasting and numerical weather prediction into a uniform framework.

IAFE = Innovation in Applied Research and Development Programme

SFP = Special Research Programme

BMVI = Ministry for Transport and Digital Infrastructure

GOV = Government Funding

UoR = University of Reading

PhD Students Co-Supervisor

Vanessa Bachmann, PhD Karlsruhe, DA for ART Models, Co-Supervisor,
2017-2020
with Prof. Christoph Kottmeier, Dr. Bernhard Vogel

Oana Lang, PhD Imperial College/University of Reading, Co-Supervision,
2016-2019
with Prof. Dan Crisan and Prof. Peter-Jan van Leeuwen
Frederick Kurzrock, PhD La Reunion, SAT-DA with KENDA, Co-Supervision,
2016-2019
with Dr. Sylvain Cross/Reuniwatt Paris

Upcoming Positions

Permanent Positions to come:
Renewal of Staff Position after retirement: 1 position in 01/2019
Permanent Positions, under review for 2018:
EPS-SG: 2 permanent positions for satellite data assimilation
Satellite DA for Surface Fields in NWP, 1 permanent position

Collaborative Positions at Partner Institutes

These people work directly on data assimilation for our system in coordination with our core staff members.

Annika Schomburg, HErZ Project Leader, Uni Frankfurt, Germany (now on permanent position in our unit)

HErZ Centre for Data Assimilation LMU Munich

[HErZ LMU Wiki](#)

The HErZ Centre for Data Assimilation at LMU Munich is carrying out research in intense collaboration with the DWD Division on Data Assimilation, we jointly develop the KENDA ensemble data assimilation system and work on a range of observation operators and projects.

HErZ Head LMU Munich, Martin Weissmann (Remote Sensing Data in KENDA)
HErZ Head DWD at LMU, Tijana Janjic-Pfander (LETKF for Nonlinear Problems,
Model Error, Radar DA in KENDA, Mode-S Data in KENDA, Localization,
QPEns, parameter

HErZ Centre for Data Assimilation LMU Munich, Leonhard Scheck
(RTTOV NIR/VIS in KENDA)

HErZ Centre for Data Assimilation LMU Munich, Stefan Geiß (Sensitivity
Analysis)

HErZ Centre for Data Assimilation LMU Munich, Kevin Bachmann
(Predictability)

HErZ Centre for Data Assimilation LMU Munich, Josef Schröttle, Sat DA
idealized

HERZ Centre for Data Assimilation LMU Munich, Tobias Necker, PhD Student,
(Observation Impact)

DFG: Yuefei Zeng , LMU Munich (QPEns, Radar DA in KENDA)

DFG: Yvonne Ruckstuhl, PhD Student, LMU Munich
(QPEns, parameter estimation in KENDA, boundary layer)

Former Partners / Completed Projects

Walter Acevedo, Uni Potsdam, Particle Filters in NWP, with Prof. Sebastian Reich (joined us in November 2017)

Sylvain Roberts (ETH Zürich, Particle Filter for KENDA) with Prof. Hans-Rüdi Künsch

SFP RADAR: Theresa Bick, University of Bonn, RADAR Rapid Update Cycle in KENDA, 2nd Supervisor of PhD

BMVI COSMO-MUC-KENDA: Heiner Lange, PhD Student, LMU Munich
(Mode-S Data in KENDA, rapid updates, balances, Radar DA)

HERZ Centre for Data Assimilation LMU Munich, Kathrin Folger, PhD Student,
(AMV Height Correction)

HERZ Centre for Data Assimilation LMU Munich, Michael Würsch
(Radar DA, particle filters, simple convective scale models)

HERZ Centre for Data Assimilation LMU Munich, Florian Harnisch (SEVIRI DA KENDA)

BMVI LIDAR: Armin Geisinger, Uni Hohenheim (Lidar Forward Operator for COSMO-ART/KENDA)

Former Group Members, Post Docs and PhD Students

Gerhard Paul (Deputy Head Data Assimilation, Surface DA, Operational Monitoring) 2010-2017

Aamir Nadeem, PhD Student No 13; Generalized Localization and Multiscale Data Assimilation 2012-2017

Dr. Dora Föhring, Eumetsat Fellowship, EUMETSAT Fellowship 2014-2016

Dr. Annika Schomburg, EWELINE 2013-2015, (Photovoltaic DA, + SEVIRI IR Data Assimilation)

Africa Perianez, PhD Student No. 12; SFP 2012-2014, EnKF with Seviri Data, PhD at Reading

Dr. Rory Gray, SFP 2012-2014, IR Sounder Ensemble Data Assimilation

Dr. Eric Lange, SFP 2012-2014, Ensemble Assmilation for IR Sounder with Clouds, Global Model

Dr. Jaison Ambadan, SFP 2012-13 (Ensemble Filters and IR Data Assimilation)

Erdem Altuntac, Researcher, DWD/Göttingen 2012-2014 (GPS Tomography)

Natalie Lowery, PhD Student No. 11; Reading 2009-13 (Discrimination Methods on Ill-Posed Problems)

Alexander Moodey, PhD Student No 10; Reading 2009-13 (Stability of Data

Assimilation Methods)

Dr. Richard Müller (DWD 2013, Data Assimilation for Renewable Energy)
Ndifreke Udosen, PhD Student No. 9; , Reading (2008-2012) (EIT/Meta-Inverse Problems/Targeted Observations)

Andreas Messer (DWD 2012, Microwave Sounder Data Assimilation)

Dr. Agnes Hoffmann (DWD 2012, Fog Data Assimilation)

Mashrab Kuvatov (DWD 2010-11, Microwave Data Assimilation)

Dr. Detlef Pingel (DWD 2010-2011, Infrared Data Assimilation)

Quazi Muhammad Zaigham Zia (PhD Student No 8; 2007-2011, Flow

Reconstructions)

Karolin Eichler (DWD 2010-11, Data Assimilation)

Dr. Jan Keller (DWD 2010-11, Ensemble Prediction Methods)

Ronny Leinweber (DWD 2010, Humidity)

Chris Prigle (PostDoc 2010)

Boris Marx (PhD Student No. 7; 2007-2010, Postdoc 2011, Magnetic Tomography and Data Assimilation)

Dimitris Pinotsis (PostDoc 2009, Neural Field Theory)

Corinna Burkard (PhD Student No. 6; 2007-2010, Acoustic and Electromagnetic Inverse Problems)

Martin Wannert (PhD Student No. 5; 2006-2009, Magnetic Tomography)

Harald Heese (PostDoc 2006, NFG, Differentiability)

Eric Heinemeyer (PhD Student No. 4; 2004-2007, PostDoc 2007-8, Graduate School, Magnetic Tomography)

Fabrice Delbary (PostDoc 2006, BMBF, Electromagnetic Inverse Problems)

Jochen Schulz (PhD Student No. 3; 2001-2007, Acoustic and Electromagnetic Inverse Problems)

Fahmi ben Hassen (PostDoc 2004-2005, NFG, Splitting Procedure and Elm. Inverse Problems)

Klaus Erhard (PhD Student No. 2; 2002-2005, NFG, Point Source Method for Inverse Problems)

Russell Luke (PostDoc 2001-2003, NFG, No Response Test, Point Source Method etc)

Lars Kühn (PhD Student No 1; 2001-2005, NFG, Magnetic Tomography)

Kuo-Ming Lee (PhD 2003, Kress first supervisor), NFG

NFG = Nachwuchs-Forscher Gruppe (Young Researchers Group)

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