Curriculum Vitae

Personal Details

Name	Andreas Christian Hill
Date of birth	15.01.1986
Place of birth	Trier (Germany)

Education

06/2018–present	State Forest Service Rhineland-Palatinate, Germany
02/2014–06/2018	Ph.D. Student ETH Zurich, Department of Environmental Systems Science, Chair of Forest Engineering
04/2015–05/2017	Diploma of Advanced Studies ETH ETH Zurich, Applied Statistics
03/2011–03/2012	ERASMUS study abroad at ETH Zurich, Switzerland
04/2010–08/2013	Master of Science (M.Sc.) University of Göttingen, Forest Sciences and Forest Ecology with study focus on Forest Ecosystem Analysis and Information Processing
10/2006–03/2010	Bachelor of Science (B.Sc.) University of Göttingen, Forest Sciences and Forest Ecology

Professional Experience

Since 10/2013	Researcher Department of Environmental System Science, Chair of Forest Engineering, ETH Zurich
10/2011–04/2012	Research Assistant Department of Environmental System Science, Chair of Forest Engineering, ETH Zurich
09/2007–03/2011	Research Assistant Department of Forest Inventory and Remote Sensing, Faculty of Forest Sciences, University of Göttingen

Publications in Conference Proceedings and Workshops

[1] **Hill, A.**, Mandallaz, D., Buddenbaum, H., Stoffels, J., Langshausen, J. (2017): Implementation of design-based small area estimations on forest district level in Rhineland-Palatinate by combining remote sensing data with data of the Third German National Forest Inventory. In *3rd International Workshop on Forest Inventory Statistics*. Freiburg, Baden-Württemberg Germany.

[2] **Hill, A.**, Stoffels, J., Langshausen, J. (2016): Design-based approach of small area estimations for the state of Rhineland-Palatinate (Germany) based on national forest inventory data. In *CARISMA-workshop on large-scale mapping and estimation of forest resources*. Ås, Norway

[3] **Hill, A.**, Breschan, J. (2014): Automatic Design of Efficient Harvesting Units using Remote Sensing and Field Data. In *24th IUFRO World Congress*. Salt Lake City, Utah, USA

[4] Breschan, J., **Hill, A.** (2014): Validation of timber volume maps derived from remote sensing data. In *24th IUFRO World Congress*. Salt Lake City, Utah, USA

Publications in Scientific Journals

[1] **Hill, A.**, Mandallaz, D., Langshausen, J. (2018): A Double-Sampling Extension of the German National Forest Inventory for Design-Based Small Area Estimation on Forest District Levels. *Remote Sensing*, 10(7), 1052. doi: 10.3390/rs10071052

[2] **Hill, A.**, Buddenbaum, H., Mandallaz, D. (2018): Combining canopy height and tree species map information for large scale timber volume estimations under strong heterogeneity of auxiliary data and variable sample plot sizes. *European Journal of Forest Research*, doi: 10.1007/s10342-018-1118-z

[3] Gabriel, A., **Hill, A.**, Breschan, J. (2018): Neue Hilfsmittel zur Anwendung zweiphasiger Stichprobenverfahren in der Waldinventurpraxis. *Schweizerische Zeitschrift für Forstwesen*, 169(4), 210-219. doi: 10.3188/szf.2018.0210

[4] Lamprecht, S., **Hill, A.**, Stoffels, J., Udelhoven, T.(2017): A Machine Learning Method for Co-Registration and Individual Tree Matching of Forest Inventory and Airborne Laser Scanning Data. *Remote Sensing*, 9 (5). doi: 10.3390/rs9050505

[5] **Hill, A.**, Breschan, J., Mandallaz, D. (2014): Accuracy Assessment of Timber Volume Maps using Forest Inventory Data and LiDAR Canopy Height Models. *Forests*, 5 (9). 2253-2275. doi: 10.3390/f5092253

[6] Mandallaz, D., Breschan, J., **Hill, A.** (2013): New Regression Estimators in Forest Inventories with Two-Phase Sampling and Partially Exhaustive Information: a Design-Based Monte Carlo Approach with Applications to Small-Area Estimation. *Canadian Journal of Forest Research*, 43 (11). 1023-1031. doi: 10.1139/cjfr-2013-0181

Other Publications

[1] Breschan, J., **Hill, A.**, Ginzler, C., Gabriel, A. (2017): Kombination von Forstinventur und Fernerkundungsdaten. *Seminar der Gruppe Fortbildung Wald und Landschaft*, Zurich, Switzerland. url: https://doi.org/10.3929/ethz-b-000224913

[2] Mandallaz, D., **Hill, A.**, Massey, A. (2016): Design-based properties of some small-area estimators in forest inventory with two-phase sampling - revised version. *Technical Report*, Department of Environmental Systems Science, ETH Zurich. doi: 10.3929/ethz-a-010579388

[3] **Hill, A.**, Massey, A., Mandallaz D. (2016): forestinventory: Design-Based Global and Small-Area Estimations for Multiphase Forest Inventories. R package version 0.1.0 *CRAN Repository* url: https://CRAN.R-project.org/package=forestinventory