

curriculum vitae

SAMUEL JONSON SUTANTO

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Date of birth: 20 July 1980

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WORKING EXPERIENCE

2011-June 2015:

Institute for Marine and Atmosphere Research Utrecht (IMAU)

Department of Physics, Utrecht University

Address: Princetonplein No.5, 3584CC, Utrecht, the Netherlands

2004-2009:

Experimental Station for Hydrology and Water Management

Research Center for Water Resources, Ministry of Public Works Indonesia

Address: Jl. Ir. H. Djuanda No. 193, Bandung 40135 Indonesia

EDUCATION

2011- 2015 **PhD** researcher in University of Utrecht, Utrecht, the Netherlands
(graduate on 22 June 2015)

Thesis title: Study of the hydrological cycle using satellite-borne isotopologue measurements and model results

2009 - 2011 **MSc** in Hydrology and Water Resources, UNESCO-IHE, Delft, the Netherlands

Thesis title: Partitioning of Soil Evaporation and Transpiration Fluxes using Environmental Isotopes and Hydrometric Measurement Techniques

1998 – 2004 **B.Eng** in Civil Engineering, Parahyangan Catholic University, Bandung Indonesia

Thesis title: Flood Control at the Upstream of Manggarai Gate, Jakarta

WORKSHOPS AND TRAININGS

- GEWEX summer sessions, Delft University of Technology, 10-12 July 2014, Delft The Netherlands
 - River Basin Modeling Short Course, UNESCO-IHE, 6-24 April 2009, Delft The Netherlands
 - Legal Framework of Water Resources Management Asia Regional Course, IDLO, October 22 – November 2, 2007, Sydney Australia
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AWARD AND FELLOWSHIPS

- **AGU young hydrology** prize during GEWEX conference 2014 for poster presentation.
- **Sumaryanto Widayatin Young Scientist Award 2013** from Ministry of Public Works, Indonesia.
- **Joint Japan World Bank Graduated Scholarship Program (JJ/WBGSP)** for master study in UNESCO-IHE, Delft, The Netherlands.
- **STUNED** for River Basin Modeling Short Course in UNESCO-IHE, Delft, The Netherlands.
- **AUS AID in cooperation with Bill & Melinda Gates foundation** for Legal Framework of Water Resources Management Asia Regional Course, Sydney, Australia.

TEACHING ASSISTANT

- **Radioactivity and Radiation**, Laboratory course, Utrecht University College (UCU)-291, 2012, 2013.
- **Atmospheric Composition and Chemical Processes**, Master Program at IMAU, Utrecht University, 2012, 2013.

PUBLICATIONS

INTERNATIONAL PUBLICATIONS

- Coenders-Gerrits, M., Bogaard, T., Wenninger, J., and **Sutanto, S. J.**: Synthesis on evaporation partitioning using stable isotopes, **submitted to Hydrol. Process., 2015.**
- **Sutanto, S. J.**, Hoffmann, G., Worden, J., Scheepmaker, R. A., Aben, I., and Röckmann, T.: Atmospheric processes governing the changes in water isotopologues during ENSO events from model and satellite measurements, **submitted to J. Geophys. Res., 2015.**
- **Sutanto, S. J.**, Hoffmann, G., Scheepmaker, R. A., Worden, J., Houweling, S., Yoshimura, K., Aben, I., Röckmann, T.: Global-scale remote sensing of water isotopologues in the troposphere: representation of first-order isotope effects", Atmos. Meas. Tech., 8, 999-1019, doi:10.5194/amt-8-999-2015, 2015.
- **Sutanto, S. J.**, van den Hurk, B., Dirmeyer, P. A., Seneviratne, S. I., Röckmann, T., Trenberth, K. E., Blyth, E. M., Wenninger, J., and Hoffmann, G.: HESS Opinions "A perspective on isotope versus non-isotope approaches to determine the contribution of transpiration to total evaporation", Hydrol. Earth Syst. Sci., 18, 2815-2827, doi:10.5194/hess-18-2815-2014, 2014.
- **Sutanto, S. J.**, Hoffmann, G., Adidarma, W., and Röckmann, T.: Correlation of drought and water isotopes in Indonesia, 4th International Seminar of HATHI, 6-8 September 2013, Yogyakarta, Indonesia (Conference proceeding).
- **Sutanto, S. J.**, Wenninger, J., A.M.J. Gerrits, M., and Uhlenbrook, S.: Partitioning of evaporation into transpiration, soil evaporation and interception: a

comparison between isotope measurements and a HYDRUS-1D model, *Hydrol. Earth Syst. Sci.*, 16, 2605-2616, doi: 10.5194/hess-16-2605-2012, 2012.

- **Sutanto, S. J.**, and Ginting, S.: Use of Proposed Reservoirs to Reduce Flood in Semarang City, International Seminar on climate change impacts on water resources and coastal management in developing countries, Manado Indonesia, 11-13 Mei 2009 (Conference Proceeding).

PUBLICATIONS IN INDONESIA (peer-reviewed Indonesian journals)

- **Sutanto, S. J.**: Studi pengaturan tinggi bukaan pintu air Ciliwung Kota pada saat banjir dengan bantuan model hidraulik (*Study on Systematization of Ciliwung Water Gate when Its Flooding using Hydraulics Model*), Buletin Sumber Daya Air, Vol. 16 No. 47, December 2007.
- **Sutanto, S. J.**, and Mulyantari, F.: Karakteristik hujan ekstrim di dalam area kolam lumpur Sidoarjo (*Extreme precipitation characteristic in the Sidoarjo hot mud pond*), Jurnal Sumber Daya Air, Vol. 4 No. 2, November 2008.
- Ginting, S., and **Sutanto, S. J.**: Kalibrasi dan verifikasi model untuk estimasi debit banjir rencana di DAS Garang (*Calibration and verification of design flood in Garang Basin*), Buletin Teknologi Sumber Daya Air, Vol. 5 No. 3, December 2008.
- Soenarto, B., and **Sutanto, S. J.**: Kajian permasalahan banjir dalam pembangunan lapangan udara Kuala Namu (*Study on future flood problem due to the impact of Kuala Namu airport construction*), Buletin Sumber Daya Air, Vol. 1 No. 2, June 2009.
- **Sutanto, S. J.**, and Mulyantari, F.: Analisis banjir di kolam spillway untuk penanggulangan lumpur di Sidoarjo (*Flood analysis in the Sidoarjo hot mud reservoir*), Buletin Sumber Daya Air, Vol. 1 No. 2, June 2009.
- **Sutanto, S. J.**: Aplikasi penelitian perhitungan banjir pada DAS tidak terukur di Situbondo (*Application of design flood analysis in the ungauged catchment in Situbondo*), Jurnal Sumber Daya Air, Vol. 4, No. 2, November 2009.
- **Sutanto, S. J.**, Zafra, J., Anvarifar, F., and Dung, T. D.: Hydrological, Geological and Chemical Assessment of Bouinenc Catchment, South of France (In English), Jurnal Teknik Hidraulik, Vol. 6, No. 2, November 2010.
- Mulyantari, F., **Sutanto, S. J.**, and Asyantina, T.: Design flood formula development in ungauged catchments, West Java Indonesia: index flood and L-moment approach (In English), Jurnal Teknik Hidraulik, Vol. 2, No. 2, Desember 2011.
- **Sutanto, S. J.**: Evapotranspiration calculation and determination of evaporation effect in the soil using stable isotopes (^{18}O and ^2H) and hydrometric measurements (In English), Jurnal Teknik Hidraulik, Vol. 2, No. 2, Desember 2011.
- **Sutanto, S. J.**: Direct comparison of global precipitation and atmospheric water vapor isotopologue from space and model (In English), Jurnal SDA, Vol. 8, No. 2, November 2012.
- **Sutanto, S. J.**, and Adidarma, W. K.: Analisis kekeringan di beberapa negara Eropa dengan menggunakan data dari model iklim global dan di Indonesia menggunakan data hujan (*Drought analysis in some European countries using GCM model outputs and in Indonesia using in-situ observations*), Jurnal SDA, Vol. 11, No. 1, May 2015.