

Personal

Dutch; born March 4th, 1970; unmarried.

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Professional experience

- 1/2002 – now Professional Scientist at the University of Colorado – INSTAAR (Institute for Arctic and Alpine Research); PhD student at the Technical University Delft, the Netherlands.
- Participant in the Geoclutter project and in the EuroSTRATAFORM project as GIS expert and numerical modeler (<http://instaar.colorado.edu/deltaforce/startpages/projects.html>).
 - Developer of HydroTrend, a model that creates synthetic river discharge and sediment load time series as a function of climate trends and basin morphology (<http://instaar.colorado.edu/deltaforce/models/hydrotrend.html>).

Since January 1998 working at the Ministry of Transport, Public Works and Water Management, Directorate-General of Public Works and Water Management Noord-Holland (NH) Directorate, Haarlem - The Netherlands. Activities:

- 11/1999 – 12/2001 Senior consultant Geographic Information System (GIS) projects, Head of the GIS cluster of the NH Directorate (managing \$400 K / year). Under my supervision the following projects were launched:
- Setting up a GIS division and GIS-helpdesk for the Directorate.
 - Formulation of a GIS policy for 2002-2007.
 - Implementation of a web-based metadata system (GeoKey) available for 1100 users. (http://www.geodan.nl/nl/product/geokey/gk_alg.htm).
 - Development of a full link between the GIS data and the metadata system to provide easy user access.
 - Participation in several national and international GIS-projects.
- 02/1999 - 10/1999 Deputy Manager division Co-ordination and Information (managing \$400 K / year).
- 01/1998 - 02/1999 Assistant GIS, division Co-ordination and Information.
- 10/1997 - 12/1997 Digitizer for AND mapping, Rotterdam - The Netherlands.
- 12/1996 - 06/1997 Thesis & research 'Changes of forest area in Drenthe, The Netherlands'. A study of land-use changes with the use of Arc Info and ArcView.
- 03/1995 - 11/1996 Thesis & research 'Simulated man-induced erosion in the Middle Mountains of Nepal: A case study on the relation between land use, land tenure and erosion with the use of GIS and the AGNPS-model in the Mahadev khola watershed'.
- 10/1994 - 02/1995 A five months practical period in India: 'Impressions of governmental as well as non-governmental projects dealing with agro-forestry'.

Education record

- 1990 - 1997 MSc of Agricultural natural environment, Agricultural University of Wageningen. Specialism: Tropical Forestry and GIS.
- 1988 - 1990 Pre-universal education in subjects: Dutch, English, Mathematics, Physics, Chemistry and Biology.
- 1982 - 1988 School of higher secondary education in subjects: Dutch, English, Mathematics, Physics, Chemistry and Biology.

Extra curricular activities

- 07-08/2003 Geological fieldwork assistant for the Channel switching in fluvio-deltaic systems draining land-ice project on Baffin Iceland, Canada.
- 1999-2003 Participant in several GIS and numerical modeling related workshops and conferences.
- 10/2000 Course on coaching skills.
- 09/2000 Course on Practical Management skills.
- 1999 - 2000 Participant of the international SeaGIS project. Applying GIS on coastal zone management, Bergen, Norway.
- 11/1999 Course on Project management.
- 02/1998 Course ArcView at ESRI-Netherlands.
- 03/1995 Intensive Nepali language course, Nepal.
- 1993 - 1994 Student representative of the student association for Forestry, Wageningen University, The Netherlands.
- 1993 - 1994 Head teaching assistant of a group of 40 international forestry students. Aim of the project was to find the bottleneck between the Dutch agricultural and nature policy.
- 1990 - 1993 Member of the student union SSR-Wageningen, The Netherlands.

Papers

- Syvitski, J.P.M., Kettner, A.J., Correggiari, A., and Nelson, B.W., submitted 2004. Distributary Channels and their Impact on Sediment Dispersal. *Marine Geology, Special Issue*.
- Kettner, A.J., and Syvitski, J.P.M., submitted 2004. Predicting Discharge and Sediment Flux of the Po River, Italy since the Late Glacial Maximum. *IAS, Special Issue*.
- Syvitski, J.P.M., and Kettner, A.J., accepted 2004. Predicting the Flux of Sediment to the Coastal Zone: Application to the Lanyang watershed, northern Taiwan. *Journal of Coastal Research*.
- Overeem, I., Syvitski, J.P.M., Hutton, E.W.H., and Kettner, A.J., submitted 2003. Stratigraphic variability due to uncertainty in model boundary conditions: a case-study of the New Jersey Shelf over the last 21,000 years. *Marine Geology*.

Abstracts

- Kettner, A.J., Syvitski, J.P.M., and Correggiari, A., August 2004. Modeling sediment dispersal for distributary channels of the Po River. *32nd International Geological Congress (IGC)*, Florence, Italy.
- Kettner, A.J., and Syvitski, J.P.M., 2004. Predicting sediment flux to the Adriatic Sea and the significance of the LGM Alpine glaciers. *34th Annual International Arctic Workshop*, Boulder, Colorado, USA.

- Overeem, I., Briner, J.P., and Kettner, A.J., 2004. How dynamic are fluvial-deltaic systems draining land-ice? A case-study of Clyde River, Baffin Island. *34th Annual International Arctic Workshop*, Boulder, Colorado, USA.
- Kettner, A.J., and Syvitski, J.P.M., 2003. Predicting discharge and sediment flux of the Po River, Italy since the LGM. *Analogue and numerical forward modelling of sedimentary systems; from understanding to prediction*, Utrecht, The Netherlands. Extended abstract.
- Kettner, A.J., and Syvitski, J.P.M., 2003. Sediment flux from Apennine Rivers: influence of reservoirs. *COMDELTA: Comparing Mediterranean and Black Sea prodeltas*, Aix-en-Provence, France. Extended abstract.
- Syvitski, J.P.M. and Kettner, A.J., 2003. Impact of Distributary Channels on Sediment Dispersal Using the Po River as a Case Study. *COMDELTA: Comparing Mediterranean and Black Sea prodeltas*, Aix-en-Provence, France.
- Syvitski, J.P.M. and Kettner, A.J., 2003. On the Hydrological Routing of Water and Sediment into the Northern Adriatic. *AGU Fall meeting*, San Francisco, USA.
- Pratson, L.F., Hutton, E.W.H., Syvitski, J.P.M., and Kettner, A.J., 2003. Modeling the Impact of Flood Sedimentation on the Acoustic Response of the Seabed. *AGU Fall meeting*, San Francisco, USA.

Active Professional memberships

AGU: American Geophysical Union

Special skills

Computer knowledge: Windows, UNIX, Microsoft Office, Msproject. Graphics programs: Autocad 14, CORELL and Adobe Illustrator. GIS programs: ArcView, ArcInfo, ArcGIS, ArcIMS, ArcPAD, RiverTools and IDRISI. Program languages: C, HTML, IDL.