

## CURRICULUM VITAE

### Personal information

Name: Temerdek-Ivan

Previous names: Ivan

First name: Kinga

Date of birth: 11.11.1988

E-mail address: kinga.ivan@ubbcluj.ro; ivan\_kinga@yahoo.com

Gender: Female

### Work experience

Dates: *August 2016-present*

Occupation or position held: **Researcher**

Name of employer: Babeş-Bolyai University, Faculty of Geography, Cluj-Napoca

Type of business or sector: Geography

Dates: *February 2015- May 2015 (4 months)*

Occupation or position held: **Internship**

Name of organisation: Budapest Sewage Works Pte Ltd, Budapest, Hungary

Type of business or sector: Urban Hydrology

Dates: *March 2014- July 2014 (4 months)*

Occupation or position held: **Internship**

Name of organisation: Université de Lorraine-Metz, Centre de Recherches en Géographie LOTERR, Metz, France

Type of business or sector: Geographic Information System (GIS)

### Education and training

Dates: *2012-2015*

Title of qualification awarded: **PhD in Geography**

Principal subjects: thesis on *A GIS and Remote Sensing-Based Research on the Cluj-Napoca Municipality Urban Hydrology.*

Web page address: 193.231.20.119/doctorat/teza/fisier/2982

Name of organisation: Babeş-Bolyai University, Faculty of Geography, Cluj-Napoca, Romania

Dates: 2010-2012

Title of qualification awarded: **Master in Geomatics**

Name of organisation: Babeş-Bolyai University, Faculty of Geography, Cluj-Napoca, Romania

Dates: 2007-2010

Title of qualification awarded: **Bachelor in Geography**

Name of organisation: Babeş-Bolyai University, Faculty of Geography, Cluj-Napoca, Romania

Dates: 2003-2007

Title of qualification awarded: **Baccalaureate**

Name of organisation: Andrei Mureşanu National College

### **Association Membership**

*2015-present:* Regional Studies Association

*2009-2011:* European Geography Association

### **Personal skills and competences**

#### *Languages:*

Hungarian - mother tongue

Romanian - mother tongue

English – intermediate

French – basic

*Organisational skills and competences:* attention to details, decision making, problem solving, team management.

#### *Computer skills and competences:*

*very good command of GIS softwares: ArcGIS, QGIS, PostgreSQL (PostGIS);*

*very good command of remote-sensing image processing software: ENVI, ESA SNAP;*

*good command of hydrological software: HEC-HSM, EPA SWMM, HyFran;*

*good command of statistical softwares: SPSS, STATA;*

*good command of graphic design softwares: GIMP, Inkscape, Corel DRAW.*

## **Member in the research and design teams of the following projects**

- “Competitiveness support grant”**, 2020-2021, Project type: Research Excellence Support Grants, Contract no. AGC31400/06.04.2020, Funded by Babeş-Bolyai University, Grant manager: CS. dr. Ivan Kinga;
- “Competitiveness support grant”**, 2019-2020, Project type: Research Excellence Support Grants, Contract no. AGC31322/ 09.04.2019, Funded by Babeş-Bolyai University, Grant manager: CS. dr. Ivan Kinga;
- “Cluj County Spatial Plan”** 2019-2020, consultant World Bank, beneficiary: Cluj County Council, Project manager: Marcel Ionescu-Heroiu.
- “Competitiveness support grant”**, 2019-2020, Project type: Research Excellence Support Grants, Contract no. AGC 32477 / 28 06 2019, Funded by Babeş-Bolyai University, Grant manager: Conf. dr. Holobacă Iulian-Horea;
- “The impact of climate change on glaciers and associated risks in the Georgian Caucasus”**, 2019-2020, Project no. IMPCLIM/08-AUF, Funded by L'Agence universitaire de la Francophonie (AUF), Project manager: PhD. Associate Professor Holobacă Iulian-Horea.
- “Understanding and modelling time-space patterns of psychology-related inequalities and polarization”**, 2018-2022, Project no. PN-III-P4-ID-PCCF-2016-0084, Project manager: PhD. Prof. Benedek József.
- “Study for the designation of periurban areas”**, 2018, Beneficiary: County Councils of Cluj, Project no. 34711, Project manager: PhD. Prof. Benedek József.
- “Soutien à l'organisation de manifestations scientifiques - Les risques naturels dans le contexte du changement climatique”**, 2018, Project no. BECO 640/1330, Funded by L'Agence universitaire de la Francophonie (AUF), Project manager: PhD. Associate Professor Holobacă Iulian-Horea.
- “Implementation of an Urban Heat Island measurement network in Cluj-Napoca”** 2018-2019, Funded by Babes-Bolyai University, Project manager: PhD. Associate Professor Holobacă Iulian-Horea.

## Publications

### *Published articles: ISI*

- Ivan K.**, Holobăcă I.-H, Benedek J, Török I. (2020). Potential of Night-time lights to measure regional inequality. *Remote Sensing* 12 (1), 33. doi: 10.3390/rs12010033.
- Holobăcă I. H., **Ivan K.**, Alexe M. (2019). Extracting built-up areas from Sentinel-1 imagery using land-cover classification and texture analysis. *International Journal of Remote Sensing*, doi:10.1080/01431161.2019.1608391.
- Ivan K.**, Benedek J., Ciobanu S.M, (2019) School-age pedestrian-vehicle crashes vulnerability. Case study: Bucharest city, Romania. *Sustainability*, 11(4), 1214. doi:10.3390/su11041214.
- Nagy J., Benedek J., **Ivan K.** (2018) Measuring Sustainable Development Goals at a Local Level: A Case of a Metropolitan Area in Romania. *Sustainability*, 10(11), 3962; <https://doi.org/10.3390/su10113962>.
- Ivan K.**, Gagacka D., Matecka P. (2018) Automated tool for the extraction of the surface ponds based on Lidar data. *Geographia Technica*, 13 (2) 89-96. doi: 10.21163/GT\_2018.132.07.
- Benedek J., **Ivan K.** (2018) Remote Sensing Based Assessment of Variation of Spatial Disparities. *Geographia Technica*, 13 (1), 1-9. doi: 10.21163/GT\_2018.131.01.
- Ivan K.**, Benedek J. (2017) The assessment relationship between Land Surface Temperature (LST) and built-up area in urban agglomeration. Case study: Cluj-Napoca, Romania. *Geographia Technica*, 12 (1), 64-74. doi: 10.21163/GT\_2017.121.07.
- Haidu I., **Ivan K.** (2016) Ponds delineation in various urban landforms. Case study for Cluj-Napoca, Romania. *Environmental Engineering and Management Journal*, 15(6), 1379-1386.
- Haidu I., **Ivan K.** (2016) The assessment of the impact induced by the increase of impervious areas on surface runoff. Case study the city of Cluj-Napoca, Romania. *Carpathian Journal of Earth and Environmental Sciences*, 11(2), 331-337.
- Haidu I., **Ivan K.** (2016) Urban runoff pathways and surface water volumes evolution. Case study: Bordeaux 1984-2014, France. *Houille Blanche-Revue Internationale de l'eau*, 5, 51-56.
- Ivan K.**, Haidu I., Benedek J., Ciobanu S.M. (2015) Identification of traffic accident risk-prone areas under low-light conditions. *Natural Hazards and Earth System Sciences*, 15, 2059–2068.

*Published articles: BDI*

- Haidu I., **Ivan K.** (2015) Rainwater management aiming to improve the quality of urban surface runoff. *Studia Universitatis Babeș-Bolyai Geographia*, LX , 2, 35-44.
- Ivan K.** (2015) The spatio-temporal analysis of impervious surfaces in Cluj-Napoca, Romania. *Geographia Technica*, 10 (2), 50-58.
- Ivan K.**, Haidu I. (2012) The spatio-temporal distribution of road accidents in Cluj-Napoca. *Geographia Technica*, 16 (2), 32-38.
- Szojnik A., **Ivan K.**, Rusu R. (2012) Spatial location and dynamics of retail stores in Cluj-Napoca city center. *Studia Universitatis Babeș-Bolyai Geographia*. 1, 191-198.
- Hognogi G.G., **Ivan K.**, Nicula G. C. (2012) The water supply of the localities in the Ilișua drainage basin. Conferința Aerul și Apa Componente ale Mediului, Universitatea „Babeș-Bolyai”, Cluj-Napoca, Editura Presa Universitară Clujeană: 472-479.

**Conference**

- Ivan K., Holobacă I.-H, Benedek J, Török I. (2019) Potential of Night Time Light Imagery to measure regional inequality in Romania. “Geographia Napocensis” Conference, 3-6 October, 2019, Cluj-Napoca, Romania.
- Ivan K., Holobacă I.-H, Benedek J, Török I. (2019) Measurement of Regional Inequality in Romania During 1992-2018 Using DMSP/OLS and NPP-VIIRS Night-Time Light Imagery. 7th Central European Conference in Regional Science, 9-11 October, 2019, Sopron, Hungary.
- Ivan K., Benedek J., Ciobanu S. M (2018) Identification of school-aged pedestrian traffic vulnerable area, unsafe bus stops and unsafe hourly intervals. Case study: Bucharest city, Romania. International Conference Environmental Legislation, Safety Engineering and Disaster Management, 17-19 May 2018, Cluj-Napoca, Romania.
- Ivan K., Holobacă I.-H., Alexe M., Meseșan F., Furtună P. (2018) Utilisation de l'interférométrie Radar (INSAR) pour l'observation des glissements de terrain. Les risques naturels dans le contexte du changement climatique, 14 - 17 March, Cluj-Napoca, Romania.
- Ivan K., Ciobanu S.M., Benedek J. (2017) Identification of Pedestrian Traffic Accidents Vulnerability Areas Around the Schools. Case Study Bucharest City, Romania. RSA Central & Eastern Europe Conference, 10-13 September, Cluj-Napoca, Romania.

- Ciobanu S.M, Benedek J., Ivan K. (2017) Identification of The Traffic Accidents Hotspots During Night and Day In Romania. RSA Central & Eastern Europe Conference, 10-13 September, Cluj-Napoca, Romania.
- Benedek J., Ivan K. (2017) Night-Time Lights Variation and Economic Performance. International U.A.B. – B.En.A. Conference Environmental Engineering and Sustainable Development, 25-27 May 2017, Cluj-Napoca, Romania.
- Ivan K., Benedek J. (2016) Land use change detections in urban areas with Sentinel-2A data. International Conference Geographic Information System, 28-29 October 2016, Cluj-Napoca, Romania.
- Ivan K., Benedek J., Ciobanu S. M (2016) Land Use Change in Rapidly Changing Urban Agglomerations. Case Study: Cluj-Napoca. International Conference Environmental Legislation, Safety Engineering and Disaster Management, 26-28 May 2016, Cluj-Napoca, Romania.
- Ivan K., Barabás Gy., Haidu I., (2015) Analysis of the variables influencing the concentrations of heavy metals in urban road runoff. International Conference Carpathian Basin Conference in Environmental Sciences, 6-9 May 2015, Pécs, Hungary.
- Haidu I., Ivan K., (2014) The assessment of the impact induced by the increase of impervious surfaces on surface runoff. Case study the city of Cluj-Napoca, Romania. International Conference Environmental Legislation, Safety Engineering and Disaster Management, 18-19 September 2014, Cluj-Napoca, Romania.
- Ivan K., Haidu I., Benedek J., Ciobanu S.M, (2014) Identification of road traffic accident risk-prone areas under low lighting conditions in Cluj-Napoca, Romania. International Conference Environmental Legislation, Safety Engineering and Disaster Management, 18-19 September 2014, Cluj-Napoca, Romania.
- Ivan K., Haidu I., (2014) Overland flow and runoff depth estimation. Case study Cluj-Napoca and Bordeaux cities. Journées de la Commission des Hydrosystèmes Continentaux, 11-13 June 2014, Metz, France.
- Haidu I., Ivan K. (2013) Overland flow delineation in Cluj-Napoca city. International Conference Geographic Information System, 11-12 October 2013, Iași, Romania.
- Ivan K., Haidu I., (2012) Risk and vulnerability analysis of the road network to car accidents in Cluj-Napoca city. International Conference Geographic Information System, 9-10 November 2012, Cluj-Napoca, Romania.

Văidean R., Ivan K., Hognogi G. (2012) Identification of landslide susceptibility of Dobric catchment using frequency ratio model. International Conference Geographic Information System, 9-10 November 2012, Cluj-Napoca, Romania.

Hognogi G., Ivan K., (2012) The Effects of Relief on the Dynamics of the Țibleș Mountains Regional System. International Conference Regional disparities: typology, impact, management, 20-21 October 2012, Cluj-Napoca, Romania.

Hognogi G. Ivan K. Nicula G.C (2012) The water supply of the localities in the Ilișua drainage basin. International Conference Air and water components of the environment, 23-24 March 2012, Cluj-Napoca, Romania.

### **Workshops participation**

22 - 26 July 2019 – *Geospatial Technologies and Remote Sensing for Monitoring Sustainable Development Goals*, hosted by Central European University in cooperation with the United Nations, Budapest, Hungary, <https://summeruniversity.ceu.edu/geospatial-2019>.

13 - 17 May 2019 – *ArcGIS Pro*, hosted by Faculty of Civil Engineering - Technical University of Cluj-Napoca.

### **Scientific expedition**

1 - 15 August 2019 – Participation in the scientific expedition Caucasus, Svaneti region – Georgia, through the international project: “The impact of climate change on glaciers and associated risks in the Georgian Caucasus”.

Temerdek-Ivan Kinga

10.07.2020

