



## *Curriculum Vitae* - Timotej Verbovšek

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### **Personal data:**

- Timotej Verbovšek  
1976, Ljubljana
- tel. +386 1 4704 615, fax: +386 1 4704560
- e-mail: [timotej.verbovsek@ntf.uni-lj.si](mailto:timotej.verbovsek@ntf.uni-lj.si)
- WWW: <http://www.ntf.uni-lj.si/og/timotej-verbovsek/>

### **Education:**

- 2003: BSc, University of Ljubljana, Faculty of Natural Sciences and Engineering, Department of Geology (*Well yields in Slovenia - group of dolomite aquifers*)
- 2008: PhD, University of Ljubljana, Faculty of Natural Sciences and Engineering, Department of Geology (*Influences of transmissive structures on flow and transport in karstic and fractured aquifers*)

### **Academic titles:**

- 2004–2008: assistant  
2008–2013: assistant professor (docent)
- 2013–present: associate professor

### **Employment:**

- 2003–2008: Young researcher
- 2008–present: Assistant and associate professor at University of Ljubljana, Faculty of Natural Sciences and Engineering, Department of Geology, during the postdoc project (May 2009–May 2012) employed as researcher

### **Research and interest fields:**

- Engineering geology, GIS, Hydrogeochemistry, Karst (fractured aquifers), Fractals.

### **Languages spoken:**

- Active: Slovenian, English, Croatian, Serbian
- Functional: Spanish, German

### **Pedagogical activity:**

- Geology program (BSc degree, UL NTF): *GIS in geology, Engineering geology*
- Geology program (MSc degree, UL NTF): *Applied Engineering geology, Computer methods in geology, Hydrogeochemistry, Geology of Karst 2*
- Geology program (PhD degree, UL NTF & UL FGG): *Fractal and selected computer methods in geology, Karstic processes and features*

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### Past and active research projects (leader):

- 2010–2012: Leader of the Slovenian Research Agency Z1-3670 postdoc project *Hydrogeochemistry and evolution of groundwater in karstic and fractured aquifers*, <http://www.sicris.si/search/prj.aspx?lang=eng&id=6723>
- 2016–present: Leader of the research project IPL-216 “Diversity and hydrogeology of mass movements in the Vipava valley, SW Slovenia”, <http://iplhq.org/category/iplhq/ipl-ongoing-project/>
- 2017: Leader of the project PKP 25-20-2 (Po kreativni poti) – Rock fall risk in the bay of St. Cross, Strunjan - Ogroženost obale zaradi padanja kamenja v zalivu Sv. Križa v Strunjanu, <https://sites.google.com/view/cliffall>
- 2018: Leader of the project PKP (Po kreativni poti) – Awareness of residents of municipality Kamnik of landslide endangerment - Osveščanje prebivalcev občine Kamnik o pojavih plazanja <https://sites.google.com/view/kamplaz>

### Past and active research projects (participant):

- 2009–2012: Participant in EU SEE project *CC-WaterS (Climate Change and Impact on Water Supply - Podnebne spremembe in vpliv na oskrbo s pitno vodo)*, <http://www.ccwaters.eu/>
- 2009–2012: Participant in Slovenian Research Agency L2-2337 research project *Vpliv strukture na varnost odkopavanja debelih slojev premoga - dejavniki tveganja in njihovo obvladovanje*, <http://www.sicris.si/search/prj.aspx?lang=eng&id=6540>
- 2012–2014: Participant in EU SEE project *CC-WARE (Mitigating Vulnerability of Water Resources under Climate Change - Blaženje ranljivost vodnih virov zaradi podnebnih sprememb)*, <http://www.ccware.eu/>
- 2013–2016: Participant in IPA ADRIATIC project *DRINKADRIA (Networking for Drinking Water Supply in Adriatic Region - Mreženje za oskrbo s pitno vodo na območju Jadrana)*, <http://www.drinkadria.eu/>
- 2013–2016: Participant in Slovenian Research Agency L1-3670 research project *Evaluating geological sequestration of CO<sub>2</sub> in low rank coals; Velenje basin, Slovenia as a natural analogue*, <http://www.sicris.si/search/prj.aspx?lang=eng&id=8695>
- 2016–2019: Participant in EU InterReg project *PROLINE “Efficient Practices of Land Use Management Integrating Water Resources Protection and Non-structural Flood Mitigation Experiences”*, <http://www.interreg-central.eu/Content.Node/PROLINE-CE.html>
- 2016–2019: Participant in EU H2020 project *UNEXMIN “Underwater explorer for flooded mines”*, <http://www.unexmin.eu/>

### Memberships in scientific and professional associations:

- AGU (American Geophysical Union)
- NGWA (National Ground Water Association)
- IAH / SKIAH (International Association of Hydrogeologists / Slovenian Chapter of IAH)
- IAEG (International Association for Engineering Geology and the Environment)
- SGD (Slovenian Geological Society)
- SloGed (Slovenian Geotechnical Society)

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### Editorial membership:

- 2012–present: Member of the Editorial Board of *Journal of biology and Earth sciences*, <http://jbes.strefa.pl>
- 2013–present: Member of the Editorial Board of *International Journal of Geosciences Research*, <http://www.sciencetarget.com/Journal/index.php/IJGR>
- 2016–present: Member of the Editorial Board of *Journal Landslides*, <http://link.springer.com/journal/10346>

### Attended professional courses with certificates:

- 26.–30.05.2007: PHREEQC modeling course (Amsterdam, instructor: dr. Tony Appelo)
- 12.–15.09.2013: Course *Solute and Reactive Transport Modeling* (Perth, instructors: dr. Chunmiao Zheng, dr. Vincent Post and dr. Henning Prommer)

### Presented international courses and lectures:

- 11.–13.5.2009: Short course entitled *Fractal analysis of flow in fractured and karstic aquifers*, presented at the Eötvös Loránd University, Department of Applied & Environmental Geology, Budapest.
- 16.–18.5.2012: Invited lecture entitled *Application of fractals in geology with examples from hydrogeology, geomorphology and sedimentology.*, presented at the Pedagogical University in Krakow, Poland.
- 2.10.2012: Invited lecture entitled *Slovenian karst – geography and geology*, presented at the Pedagogical University in Krakow, Poland.
- 10.–13.09.2014: Invited lecture entitled *Karstic aquifers of Slovenia - hydrogeology and geochemistry*. presented at the Università di Napoli Federico II, Dipartimento di Scienze della Terra, Naples, Italy.
- 19.6.2015 Lecture entitled *Hydrogeochemistry of dolomite aquifers in Slovenia*, Croatian Geological Survey (HGI-CGS), Zagreb, Croatia
- 3.7.2015 Lecture entitled *Use of fractals in geology, with examples from geomorphology and hydrogeology*, Croatian Geological Survey (HGI-CGS), Zagreb, Croatia
- 3.5.2017 Lecture entitled *Groundwater geochemistry - case study of dolomite aquifers in Slovenia*, Mendel and Masaryk University in Brno, Czech republic
- 10.5.2017 Lecture entitled *Groundwater geochemistry - case study of Velenje coal basin, NE Slovenia*, Mendel and Masaryk University in Brno, Czech republic
- 20.5.2017 Lecture entitled *Lidar and GIS in karst geomorphology*, Mendel and Masaryk University in Brno, Czech republic
- 2017: Lecture entitled *Lidar DEM-based terrain roughness analysis for landslide characterization*, Summer School “Natural disasters” 21<sup>th</sup> May to 10<sup>th</sup> June, Ljubljana, <http://www.let-group.com/summerschool.html>
- 19.4.2018: Invited lecture entitled «Use of fractals in dolomite rocks for determining the relationship between fractures and water flow», Budapest University of Technology and Economics, Hungary

### Leadership activity:

- 2009–2012: Leader of the postdoc project *Hydrogeochemistry and evolution of groundwaters in karstic and fractured aquifers*
- 2010–present: mentor and co-mentor of 42 finished diplomas (BSc and MSc) on the subject of engineering geology and hydrogeochemistry
- 2010–present: mentor of scientific master degree study in the field of geology (in progress)

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- 2011–present: mentor of two young researchers (doctoral program) in the field of geology (in progress)
  - 2008–2013: Secretary of Slovenian Committee of International Association of Hydrogeologists (Slovenian IAH Chapter)
  - 2010–2014: President of the Slovenian Geological Society
  - 2010–2015: Head of the Chair of Applied Geology at the Department of Geology, Faculty of Natural Sciences and Engineering
  - 2012 and 2014: Mentor of two diploma awarded for best GIS diplomas at the University level
  - 2014: Main organizer of the 4<sup>th</sup> Slovenian Geological Congress, 8–10<sup>th</sup> October 2014, Ankaran, Slovenia
  - 2015: Mentor of diploma awarded with Prešeren student award (faculty level)
  - 2016–present: Leader of the research project IPL-216 *Diversity and hydrogeology of mass movements in the Vipava valley*, SW Slovenia
  - 2016–present: Representative of the Faculty of Natural Sciences and Engineering as a member in the International Consortium on Landslides (ICL)
  - 2017: Organization of the 4<sup>th</sup> World Landslide Forum (WLF4), 29<sup>th</sup> May – 2<sup>nd</sup> June 2017, Ljubljana, Slovenia and post-forum WLF4 field trip guide, 3-5<sup>th</sup> June 2017, <https://www.wlf4.org/>
  - 2017: Organization of the 3<sup>rd</sup> Regional Symposium on Landslides in the Adriatic-Balkan Region (3<sup>rd</sup> ReSyLAB, 11<sup>th</sup>– 13<sup>rd</sup> October 2017, Ljubljana, Slovenia and field trip guide, <http://www.geo-zs.si/ReSyLAB2017/>

Ljubljana, 24<sup>th</sup> November 2018

assoc. prof. dr. Timotej Verbovšek



## Življenjepis

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### Osební podatki:

- Timotej Verbovšek  
1976, Ljubljana
- tel. +386 1 4704 615, fax: +386 1 4704560
- e-mail: [timotej.verbovsek@ntf.uni-lj.si](mailto:timotej.verbovsek@ntf.uni-lj.si)
- www: <http://www.ntf.uni-lj.si/og/timotej-verbovsek/>

### Izobrazba:

- 2003: diploma, Univerza v Ljubljani, Naravoslovnotehniška fakulteta, Oddelek za geologijo, naslov: "Izdatnost vodnjakov in vrtin v Sloveniji - skupina dolomitnih vodonosnikov".
- 2008: doktorat, Univerza v Ljubljani, Naravoslovnotehniška fakulteta, Oddelek za geologijo, naslov: "Vpliv prevodnih struktur na tok in prenos snovi v kraško-razpoklinskih vodonosnikih".

### Akademski nazivi:

- 2004–2008: asistent  
2008–2013: docent
- 2013–zdaj: izredni profesor

### Zaposlitev:

- 2003–2008: mladi raziskovalec
- 2008–zdaj: asistent, docent in izredni profesor na Univerzi v Ljubljani, Naravoslovnotehniška fakulteta, Oddelek za geologijo

### Raziskovalna dejavnost:

- Inženirska geologija, GIS, Hidrogeokemija, Kras, Fraktali

### Znanje tujih jezikov:

- Aktivno: Angleščina, Hrvaščina/Srbščina
- Funkcionalno: Španščina, Nemščina

### Pedagoška aktivnost:

- Prva stopnja (UL NTF): *GIS v geologiji, Inženirska geologija*
- Druga stopnja (UL NTF): *Aplikativna inženirska geologija, Računalniške metode v geologiji, Hidrogeokemija, Geologija krasa 2*
- Tretja stopnja (UL NTF & UL FGG): *Inženirskogeološke raziskave pobočnih procesov, Kraški procesi in fraktali*

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### Pretekli in sedanji projekti (vodja)

- 2010–2012: ARRS Z1-3670 postdoc projekt *Hydrogeochemistry and evolution of groundwater in karstic and fractured aquifers*, <http://www.sicris.si/search/prj.aspx?lang=eng&id=6723>
- 2016–zdaj: IPL-216 projekt “Diversity and hydrogeology of mass movements in the Vipava valley, SW Slovenia”, <http://iplhq.org/category/iplhq/ipl-ongoing-project/>
- 2017: PKP 25-20-2 projekt (Po kreativni poti) – Ogroženost obale zaradi padanja kamenja v zalivu Sv. Križa v Strunjanu, <https://sites.google.com/view/cliffall>
- 2018: PKP projekt (Po kreativni poti) – Osveščanje prebivalcev občine Kamnik o pojavih plazjenja <https://sites.google.com/view/kamplaz>

### Pretekli in sedanji projekti (sodelavec)

- 2009–2012: EU SEE projekt *CC-WaterS (Climate Change and Impact on Water Supply - Podnebne spremembe in vpliv na oskrbo s pitno vodo)*, <http://www.ccwaters.eu/>
- 2009–2012: ARRS L2-2337 projekt *Vpliv strukture na varnost odkopavanja debelih slojev premoga - dejavniki tveganja in njihovo obvladovanje*, <http://www.sicris.si/search/prj.aspx?lang=eng&id=6540>
- 2012–2014: EU SEE projekt *CC-WARE (Mitigating Vulnerability of Water Resources under Climate Change - Blaženje ranljivost vodnih virov zaradi podnebnih sprememb)*, <http://www.ccware.eu/>
- 2013–2016: IPA ADRIATIC projekt *DRINKADRIA (Networking for Drinking Water Supply in Adriatic Region - Mreženje za oskrbo s pitno vodo na območju Jadrana)*, <http://www.drinkadria.eu/>
- 2013–2016: ARRS L1-3670 projekt *Evaluating geological sequestration of CO<sub>2</sub> in low rank coals; Velenje basin, Slovenia as a natural analogue*, <http://www.sicris.si/search/prj.aspx?lang=eng&id=8695>
- 2016–2019: EU InterReg projekt *PROLINE “Efficient Practices of Land Use Management Integrating Water Resources Protection and Non-structural Flood Mitigation Experiences”*, <http://www.interreg-central.eu/Content.Node/PROLINE-CE.html>
- 2016–2019: EU H2020 projekt *UNEXMIN “Underwater explorer for flooded mines”*, <http://www.unexmin.eu/>

### Članstva v domačih in mednarodnih združenjih:

- AGU (American Geophysical Union)
- NGWA (National Ground Water Association)
- IAH / SKIAH (International Association of Hydrogeologists / Slovenian Chapter of IAH)
- IAEG (International Association for Engineering Geology and the Environment)
- SGD (Slovensko geološko društvo)
- SloGed (Slovensko geotehniško društvo)

### Uredniško delo:

- 2012–zdaj: Član uredniškega odbora revije *Journal of biology and Earth sciences*, <http://jbes.strefa.pl>
- 2013–zdaj: Član uredniškega odbora revije *International Journal of Geosciences Research*, <http://www.sciencetarget.com/Journal/index.php/IJGR>
- 2016–zdaj: Član uredniškega odbora revije *Landslides*, <http://link.springer.com/journal/10346>

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**Udeležba na mednarodnih tečajih s certifikatom:**

- 26.–30.05.2007: Tečaj modeliranja s programom PHREEQC course (Amsterdam, vodstvo: dr. Tony Appelo)
- 12.–15.09.2013: Tečaj *Solute and Reactive Transport Modeling* (Perth, vodstvo: dr. Chunmiao Zheng, dr. Vincent Post in dr. Henning Prommer)

**Predstavljena mednarodna predavanja (pedagoško delovanje na tujih univerzah):**

- 11.–13.5.2009: Predavanje z naslovom *Fractal analysis of flow in fractured and karstic aquifers*, presented at the Eötvös Loránd University, Department of Applied & Environmental Geology, Madžarska
- 16.–18.5.2012: Predavanje z naslovom *Application of fractals in geology with examples from hydrogeology, geomorphology and sedimentology.*, presented at the Pedagogical University in Krakow, Poljska
- 2.10.2012: Predavanje z naslovom *Slovenian karst – geography and geology*, presented at the Pedagogical University in Krakow, Poljska
- 10.–13.09.2014: Predavanje z naslovom *Karstic aquifers of Slovenia - hydrogeology and geochemistry.* presented at the Università di Napoli Federico II, Dipartimento di Scienze della Terra, Naples, Italija
- 19.6.2015 Predavanje z naslovom *Hydrogeochemistry of dolomite aquifers in Slovenia*, Croatian Geological Survey (HGI-CGS), Zagreb, Hrvaška
- 3.7.2015 Predavanje z naslovom *Use of fractals in geology, with examples from geomorphology and hydrogeology*, Croatian Geological Survey (HGI-CGS), Zagreb, Hrvaška
- 3.5.2017 Predavanje z naslovom *Groundwater geochemistry - case study of dolomite aquifers in Slovenia*, Mendel and Masaryk University in Brno, Češka
- 10.5.2017 Predavanje z naslovom *Groundwater geochemistry - case study of Velenje coal basin, NE Slovenia*, Mendel and Masaryk University in Brno, Češka
- 20.5.2017 Predavanje z naslovom *Lidar and GIS in karst geomorphology*, Mendel and Masaryk University in Brno, Češka
- 2017: Predavanje z naslovom *Lidar DEM-based terrain roughness analysis for landslide characterization*, Summer School “Natural disasters” 21.5.–10.6. 2017, Ljubljana, <http://www.let-group.com/summerschool.html>
- 19.4.2018: Vabljeno predavanje z naslovom »Use of fractals in dolomite rocks for determining the relationship between fractures and water flow«, Budapest University of Technology and Economics, Madžarska

**Vodstvene funkcije:**

- 2008–2013: Tajnik in blagajnik Slovenskega komiteja SKIAH – International Association of Hydrogeologists
- 2010–2014: Predsednik Slovenskega geološkega društva
- 2010–2015, 2018–zdaj: Predstojnik Katedre za aplikativno geologijo na Oddelku za geologijo NTF
- 2012 in 2014: Mentor dveh diplom, nagrajenih kot najboljša GIS diploma na nivoju Univerze v Ljubljani
- 2014: Glavni organizator 4. Slovenskega geološkega kongresa, 8.–10. Oktober 2014, Ankaran, Slovenija
- 2015: Mentor diplome, nagrajene s fakultetno Prešernovo nagrado
- 2016–zdaj: Predstavniki fakultete NTF v mednarodnem združenju združenju za plazove - International Consortium on Landslides (ICL)

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- 2017: Organizacija 4. Svetovnega foruma o zemeljskih plazovih (WLF4), 29. Maj – 2. Junij 2017, Ljubljana, Slovenija in pokongresne ekskurzije foruma WLF4, 3.-5. Junij 2017, <https://www.wlf4.org/>
  - 2017: Organizacija 3. Regionalnega simpozija o zemeljskih plazovih v Jadransko-Balkanski regiji (3rd ReSyLAB, 11.-13. Oktober 2017, Ljubljana, Slovenija in pokongresne ekskurzije, <http://www.geo-zs.si/ReSyLAB2017/>

Ljubljana, 24. 11. 2018

izr. prof. dr. Timotej Verbovšek

