# Curriculum Vitae of Jernej Činč

Department of Computer Science & Mathematics
Nipissing University
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Date of birth: December 26 1989               Citizenship: Slovenian

## Educational Data

**PhD in Mathematics**                  University of Vienna (December 2017)
  Thesis advisor                     Prof. Henk Bruin.
  Thesis title                       Accessible points of some planar continua.

**M.Sc. in Mathematics** (summa cum laude)   University of Maribor (October 2013)
  Thesis advisor                     Prof. Iztok Banič.
  Thesis title                       Half-homogeneous continua.

**B.Sc. in Mathematics** (magna cum laude)   University of Maribor (September 2011)
  Thesis advisor                     Prof. Iztok Banič.
  Thesis title                       Space-filling curves.

## Academic Positions

**01/18 - current** Postdoctoral Fellow, Department of Computer Science and Mathematics, Nipissing University.

**01/18 - 04/18** Adjunct Lecturer of Mathematics, Department of Computer Science and Mathematics, Nipissing University.

**11/13 - 11/16** Junior Researcher (FWF Stand-alone Project P 25975-N25 entitled "Strange attractors and inverse limit spaces") at the University of Vienna.

## Teaching Experience:

**01/18 - 04/18** Lecturer for Advanced Linear Algebra, Winter Semester 2018, Department of Computer Science and Mathematics, Nipissing University.

**10/12 - 2/13** Tutor at the Faculty of Electrical Engineering, Computer and Information Science at the University of Maribor.

## Organizational Experience:

**10/16 - 12/17** Member of the Steering Committee of the Vienna Doctoral School of Faculty of Mathematics, University of Vienna.

**5/16 - 6/17** Organizer of the PhD Colloquium of Faculty of Mathematics under the support of Vienna Doctoral School, University of Vienna.

**4/17 - 12/17** Organizer of Mini Courses of Faculty of Mathematics under the support of Vienna Doctoral School, University of Vienna.

**7/15** Organizational help for the "Workshop on Dynamical Systems and Continuum Theory", Faculty of Mathematics, University of Vienna.

### Research Interests

- Low-dimensional dynamical systems, topological dynamics, symbolic dynamics, continuum theory, surface dynamics.

- AMS Classification: 37A-F, 28D, 54C.

SELECTED INVITED SEMINARS AND CONFERENCE PRESENTATIONS:

- Dynamical Systems Session, Spring Topology and Dynamical Systems Conference, Auburn, Al, USA, March 2018.
  **Wada Lakes rotational attractors as omega limit sets of translation lines**

- 1st Symposium of Vienna Doctoral Schools, Vienna, September 2017.
  **The planar fixed point property problem**

- Workshop on Topological Dynamics and Rotation Theory on Surfaces, University of Jena, Germany, September 2017.
  **Planar embeddings of tent inverse limit spaces**

- Mathematical Colloquium, UAB, College of Arts and Sciences, Birmingham, AL, USA, February 2017.
  **Accessible points of chainable continua**

- Czech, Slovenian, Austrian, Slovak and Catalan Mathematical Societies joint meeting, Institut d'Estudis Catalans, Barcelona, September 2016.
  **Planar embeddings of inverse limit spaces of unimodal maps**

- 31st Summer Conference on Topology and its Applications session in honour of Krystyna Kuperberg, University of Leicester, Leicester, August 2016.
  **Degenerate arc-components in unimodal inverse limit spaces**

- Twelfth Symposium on General Topology and its Relations to Modern Analysis and Algebra (Toposym) 2016, Institute of Mathematics of the Czech Academy of Sciences, Prague, July 2016.
  **Extendability of the shift homeomorphism of some planar embeddings of unimodal inverse limit spaces**

- 50th Spring Topology and Dynamical Systems Conference, Baylor University, Special Session on Continuum Theory, Waco, Texas, March 2016.
  **Uncountably many planar embeddings of inverse limit spaces of tent maps**

- Ljubljana-Maribor-Zagreb Topology Seminar, University of Zagreb, Zagreb, October 2015.
  **On the core version of the Ingram conjecture**

- The Sixth Visegrad Conference on Dynamical Systems, Czech Technical University in Prague, Prague, July 2015.
  **On the Core Ingram Conjecture**

- Open Problem Seminar, Charles University Prague, Prague, March 2014.
  **Extending homeomorphisms of the pseudo-arc**

- Special Session on Continuum Theory, 48th Spring Topology and Dynamical Systems Conference, University of Richmond, Richmond, Virginia, March 2014.
  **On half-homogeneous chainable continua**

PAPERS AND PREPRINTS:

- (with Logan C. Hoehn) **A new characterization of the pseudo-arc**, in preparation.

- (with Jan P. Boroński) **Wada Lakes rotational attractors as omega limit sets of translation lines**, in preparation.

- (with Piotr Minc) **Principal continuum**, in preparation.

- (with Lori Alvin, Ana Anušić, Henk Bruin) **Folding points of unimodal inverse limit spaces**, in preparation.

- (with Ana Anušić, Henk Bruin) **Planar embeddings of chainable continua**, in preparation.

- (with Ana Anušić, Henk Bruin) **Problems on planar embeddings of chainable continua and accessibility**, In: Problems in Continuum Theory in Memory of Sam B. Nadler, Jr. Ed. Logan Hoehn, Piotr Minc, Murat Tuncali, Topology Proceedings **52** (2018), 283–285.

- (with Ana Anušić, Henk Bruin) **The Core Ingram Conjecture for non-recurrent critical points**, Fundamenta Mathematicae **241** (2018), 209–235.

- **Accessible points of some planar continua**, PhD Thesis, University of Vienna, 2017.

- (with Ana Anušić) **Accessible points of planar embeddings of tent inverse limit spaces**, submitted for publication, arXiv:1710.11519, 2017.

- (with Ana Anušić, Henk Bruin) **Uncountably many planar embeddings of unimodal inverse limit spaces**, Discrete Continuous Dynamical Systems - Series A, **37** (2017), 2285–2300.

AWARDS AND SCOLARSHIPS:

- **Vienna Doctoral School of Mathematics Scholarship 04/2017-10/2017**, University of Vienna, Austria.

- **Marshall Plan Scholarship for 2016/2017**, University of Auburn, Alabama, USA, January - April 2017.

- **Perlach award** (the best M.Sc. Thesis in the field of Natural Sciences and Mathematics of University of Maribor in 2014), University of Maribor, 2014.

- **Zois Scholarship** (Slovenian scholarship for gifted children and promotion of development of their careers) 2003–2013.

FURTHER DATA:

- **Date and place of birth:** December 26 1989 in Murska Sobota, Slovenia.

- **Nationality:** Slovenian.

- **Languages:** Slovenian (native), English (fluent), Croatian (fluent), German (upper intermediate).