

STATE UNIVERSITY COLLEGE AT CORTLAND

PERSONNEL ACTION FORM

Name : Nicholas Packauskas Date: 2/1/22

Department: Mathematics

Action(s) under review (reappointment, continuing appointment, promotion to associate professor, promotion to professor, lecturer advancement): Reappointment

Date of initial appointment to SUNY Cortland: August 2019

Date of present rank: August 2019

I. Mastery of subject matter:

A. Formal Preparation:

Highest Degree: Ph.D.

Year: 2019

Institution: University of Nebraska-Lincoln

Major Area: Mathematics – Homological Algebra

B. Status of Degree: Candidates currently completing a doctorate or other terminal degree should provide a description of progress to date and expected date of completion.

C. Licenses, honors, awards, certifications and other examples of recognition related to subject area: **NA**

II. Effectiveness in teaching:

A. List courses regularly taught at Cortland since initial appointment (pre-tenure) or last promotion.

MAT 115: Precalculus – Fall 20, Spring 21, Fall 21

MAT 272: Linear Algebra – Fall 19, Spring 20, Fall 21.

MAT 370 – Spring 2020, Fall 2020, Spring 21

Detailed course list is available here:

<https://packauskas.github.io/portfolio/teaching.html>

B. Describe new teaching materials developed and/or any different methods employed since initial appointment (pre-tenure) or last promotion.

I have written numerous worksheets, homework assignments and exams for each of my classes. In particular, I have prepared roughly 210 pages of guided notes for my linear algebra class and 100 pages of guided notes for my algebraic structures class (typed using LaTeX). I have written over 100 quizzes for precalculus class and over a dozen versions of precalculus and algebraic structures exams.

A thorough list of materials and examples thereof is available here:
<https://packauskas.github.io/portfolio/teaching.html>

- C. Provide evidence of accomplishments of teaching in your portfolio. Examples of the types of evidence ordinarily considered appropriate are provided in Chapter 220.07.E of the SUNY Cortland College Handbook.
- D. Describe role as an academic advisor and include any information deemed important in measuring the quality of advisement.

I serve as an advisor to 10 current undergraduate mathematics majors.

III. Scholarly ability: (This section is not required for full time lecturers. Candidates may, at their discretion, include activities in this section that support their effectiveness in teaching.)

- A. Bibliography of manuscripts either published or accepted for publication since initial appointment (pre-tenure) or last promotion: Indicate the name of the publication and the date published (or anticipated publication date) under each of the following headings.

- a. books or monographs
- b. articles in refereed journals
- c. articles in non-refereed journals
- d. manuscripts submitted but not accepted for publication
- e. book reviews
- f. op-ed pieces
- g. creative writing, including poems, short stories, etc.
- h. other

- *Quasi-Polynomial Growth of Betti Sequences over Local Rings* (In preparation)
Joint work with Luchezar Avramov and Mark Walker
- *The Homotopy Lie Algebra of Tor-Independent Tensor Product* (Submitted)
Joint work with L. Ferraro, M. Gheibi, D. Jorgensen, and J. Pollitz

- B. Bibliography of manuscripts published before initial appointment (pre-tenure) or last promotion: List in the order given in A.

- *Quasi-Polynomial Growth of Betti Sequences over Complete Intersection Rings*
My doctoral thesis, completed at the University of Nebraska-Lincoln under the supervision of Luchezar Avramov and Mark Walker
- *Cohen-Macaulayness and the First Hilbert Coefficient for a Parameter Ideal*
A largely expository paper completed for my Master's Thesis at the University of Kansas under the supervision of Daniel Katz

C. List of conference presentations made since initial appointment (pre-tenure) or last promotion. Indicate the name of the conference and the date of the presentation under each of the following headings:

- a. invited presentations or keynote addresses
- b. contributed talks at refereed conferences
- c. poster presentations at refereed conferences
- d. contributed talks at non-refereed conferences
- e. poster presentations at non-refereed conferences
- f. other

Invited Talks:

- *Quasipolynomial Growth of Betti Sequences over Complete Intersection Rings*, October 2020. AMS Sectional meeting, Special Session on Commutative Algebra and Connections to Algebraic Geometry and Combinatorics (Virtual)
- *Quasipolynomial Growth of Betti Sequences*, May 2020. Zoom Special Session on DG Methods in Commutative Algebra and Representation Theory, Virtual Conference.
- *Growth of Betti Sequences and the Homotopy Lie Algebra*, November 2019. University of Texas at Arlington Algebra Seminar, Arlington, Texas
- *Growth of Betti Sequences over a Complete Intersection*, October 2019. Route 81 Mathematics Conference, Kingston, Ontario, Canada.

See <https://packauskas.github.io/portfolio/talkspost.pdf> for Abstracts

D. List of conference presentations made before initial appointment (pre-tenure) or last promotion. List in the order given in C.

Complete list is here: <https://packauskas.github.io/portfolio/talkspre.pdf>

E. Research in Progress:

I currently have four ongoing research progress with several collaborators. I give details in <https://packauskas.github.io/portfolio/research.html>

F. External Grants

- a. awarded
- b. pending
- c. not funded

- G. Artistic and creative work since initial appointment (pre-tenure) or last promotion. This section may include musical or theatrical performances, exhibitions of artwork, audio or video production activities. For each item, include performance or exhibition date(s), venue, and if applicable, evidence of peer-review (e.g. juried exhibition, official selection at film festival)
- H. Artistic and creative work before initial appointment (pre-tenure) or last promotion. Use the same guidelines provided in F.
- I. Other scholarly or creative activity:

Conferences and seminars attended since initial appointment:
<https://packauskas.github.io/portfolio/confandsem.pdf>

IV. Service:

- A. Committees chaired since initial appointment (pre-tenure) or last promotion: Include brief description of the responsibilities of the committee.
 - Department Faculty Search Committee – Since August 2021.
This committee is working to hire a new faculty member in the area of statistics.
 - Department Scholarship Committee – Since August 2020
This committee selects students to receive scholarships including the D.L. Pugh and W.H. Reynolds awards for junior and senior mathematics majors.
- B. Committees served on since initial appointment (pre-tenure) or last promotion:
 - Department Scholarship Committee – Since August 2019, Chair since August 2020
 - Department Curriculum Committee – Since August 2020
- C. List offices held in faculty governance or in the bargaining units:
- D. Describe any administrative responsibilities (including departmental administrative responsibility) since initial appointment (pre-tenure) or last promotion:

I am a faculty representative on the Academic Grievance Tribunal since August 2021

- E. Describe work with students undertaken in addition to the formal teacher-student relationship:
- F. Professional Service:
- G. Community Service
- V. Continuing growth:
- A. List membership in professional organizations:
- Member, [American Mathematical Society](#)
- B. List professional meetings attended in the last three years:
- I attended the following conferences:
- Route 81 Virtual Confernece November 2021
 - AMS Eastern Sectional (Virtual) October 2020
 - eCARS: Early Commutative Algebra Researchers, June 2020
 - Zoom Special Session on DG Methods in Commutative Algebra and Representation Theory, Virtual Conference.
 - AMS Northeast Sectional Meeting at Binghamton, October 2019
 - Joint Mathematics Meetings, Denver, January 2020
- A detailed list of conferences and seminars attended is available at <https://packauskas.github.io/portfolio/confandsem.pdf>
- C. Describe other professional activities which contribute to growth:
- I attended the [Mastery Grading Conference](#) in June 2020 and June 2021