

# Caleb M. Shor

Curriculum vitæ

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## Employment

2008 present

11. (with T. A. Gassert) [Characterizations of numerical semigroup complements via Apéry sets](#), Semigroup Forum vol. 98, no. 1, 2019, pp. 33-47.
10. [Higher-order Weierstrass weights of branch points on superelliptic curves](#). Higher genus curves in mathematical physics and arithmetic geometry. 703 of Contemporary Mathematics 2018, pp. 143-156.
9. (with T. A. Gassert) [On Sylvester sums of compound sequence semigroup complements](#), Journal of Number Theory vol. 180, 2017, pp. 45-72.
8. (with T. Shaska) [2-Weierstrass points of genus 3 hyperelliptic curves with extra involutions](#), Communications in Algebra vol. 45, no. 5, 2017, pp. 1879-1892.
7. (with T. Shaska)



- "On free numerical semigroups and their corresponding algebraic curves," Special Session on Arithmetic Geometry, Hawaii Number Theory 2019 (HINT 2019), University of Hawai'i at Mānoa, March 2019.
- "Numerical semigroups with evenly distributed gaps," Special Session on Algebraic Curves and Their Applications, AMS Central Section Spring Meeting, Ohio State University, Columbus, OH, March 2018.
- "Characterizing gaps of numerical semigroups," University of New Haven Mathematics and Physics Seminar Series, November 2017.
- "A characterization of the complement of a free numerical semigroup," Maine/Québec Number Theory Conference, University of Maine, Orono, October 2017.
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- "Codes over  $F_{p^2}$  and  $F_p \times F_p$ , lattices, and theta functions," Applications of Computer Algebra 2007, Oakland University, July 2007.
  - "Genus calculations for towers of function fields arising from equations of  $C_{ab}$  curves," Session on Computational Algebraic and Analytic Geometry for Low-Dimensional Varieties, Joint Mathematics Meetings, New Orleans, LA, January 2007.
  - "On the geometric construction of codes from an asymptotically good tower over  $GF(8)$ ," 12th International Conference on Applications of Computer Algebra, Varna, Bulgaria, June 2006.
  - "Genus calculations for towers of function fields arising from equations of  $C_{ab}$  curves," Conference on Computational Aspects of Algebraic Curves, University of Idaho, May 2005.
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Sigma Xi

 Website profiles (clickable)  
[arXiv](#)