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“A Dynamic Panel Data Study of the Unemployment-Crime Relationship: The Case of Pennsylvania,” co-authored by applied mathematics alumna Sarah Frederick ('15), economics alumnus Zackary Nelson ('14), and professor James Jozefowicz, has been published in *Economics Bulletin*.

The paper analyzes county-level crime rates and unemployment rates from 1990 to 2009 using an estimation methodology that overcomes several statistical problems ignored in previous analyses. By accounting for the dynamics of crime, criminal inertia is isolated from potential criminal motivation effects yielding more precise results. The findings indicate that while a history of criminal behavior is associated with future criminal activity, there is not a meaningful relationship between unemployment rates and crime rates in Pennsylvania counties during the period of study.

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