

## EDUCATION

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2018 – present      **B.S. Honors** Economics and Mathematics      UNIVERSITY OF TEXAS-TYLER, USA  
GPA: 3.73

## WORK EXPERIENCE

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2020 – present      **Academic Support Department**      UNIVERSITY OF TEXAS-TYLER, USA  
*Supplemental Instructor (Calculus II)*  
*Patriot Academic Success Services Tutor (Ordinary Differential Equations and Calculus II)*  
Provided supplemental instruction for 70-80 students per semester, by providing peer assisted tutoring, study sessions, and exam reviews. Functioned as a tutor for 100-110 students by tutoring Ordinary Differential Equations and Calculus II, by hosting one-on-one tutoring services.

2020–Present      **Patriot Talon**      UNIVERSITY OF TEXAS-TYLER, USA  
*Opinion Editor*  
Columnist for the “Steady State” column.

2018 – 2020      **Hibbs Institute for Business and Economic Research**      UNIVERSITY OF TEXAS-TYLER, USA  
*Undergraduate Research Assistant*  
Prepared materials for reports, presentations and submission to peer-reviewed journal publications. Prepared literature for reports, presentation, and economic impact analysis.

## SUBMITTED

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1. A Model of Pollution, Income, and Pollution Intensity (2020) with Luis Gautier

## IN PREPARATION

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1. “On Morita Equivalence of Inverse Hulls of Markov Shifts” with David Milan.
2. “An Equivalent Definition of Open Balls” under Scott LaLonde.

## PUBLICATIONS

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### INSTITUTIONAL NEWSLETTERS

1. M. Reyes-Loya, M. Young, and A. Kumar. “Health Status in the US with a focus on East Texas” In: *Hibbs Newsletter*(July 2019).
2. M. Reyes-Loya, M. Young, and A. Kumar. “How the Behaviors of Some East Texans May Affect Their Health”. In: *Hibbs Newsletter*(Sept. 2019)
3. M. Reyes-Loya, M. Young, and A. Kumar. “Key Facts About East Texas Uninsured Population”. In: *Hibbs Newsletter*(Nov. 2019)
4. M. Reyes-Loya, M. Young, and A. Kumar. “How Much Time do East Texans Spend Commuting?” In: *Hibbs Newsletter*(Feb. 2020)
5. M. Reyes-Loya, M. Young, and A. Kumar. “Smith Gregg Counties Lead Large Texas MSAs in Healthcare System Capacity Per-Capita”. In: *Hibbs Newsletter*(Apr. 2020)
6. J. Howlett et al. “COVID-19 and East Texas Employment: The Economic Recovery Begins”. In: *Hibbs Newsletter*(Aug. 2020)

## INSTITUTIONAL REPORTS

1. M. Reyes-Loya, M. Young, and A. Kumar. "Demographic Profile of Longview, Nacogdoches, and Mount Pleasant in East Texas". In: *Hibbs Report Number: 2019 – 06* (Aug. 2019)
2. M. Reyes-Loya, M. Young, and A. Kumar. "Economic Impact Analysis of Non-Local Attendance to the 2019 NCAA Division III Softball Championship in Tyler (MSA)". in: *Hibbs Report Number: 2019 – 07* (Aug. 2019)
3. M. Reyes-Loya, M. Young, and A. Kumar. "Hibbs Institute Health Index: Examining Health Conditions in the Region". In: *Hibbs Report Number: 2019 – 08* (Aug. 2019).

## HONORS

2018-22	Presidential Fellowship	UNIVERSITY OF TEXAS-TYLER
2019	Inducted Fellow	PI MU EPSILON

## TECHNICAL SKILLS AND CERTIFICATIONS

## TECHNICAL SKILLS

R, Stata, IMPLaN, REMI, Tableau, Qualtrics, L<sup>A</sup>T<sub>E</sub>X, SQL, Python, and MATLAB(beginner).

## CERTIFICATION

2020	Statistician with R Track	DATA CAMP
2020	NetCourse 471: Introduction to Panel Data Using Stata	STATA CORPORATION

## PRESENTATIONS

2019	Association for University Business and Economic Research Conference, Savannah, GA. "Investigating the drivers of a Regional Economy: Tyler, Texas." with Reyes-Loya, M.
2020	Lyceum University of Texas-Tyler, TX. "Minimum Wage and Disemployment: Evidence from Las-Cruces." Award: Third Best Oral Presentation.
2021	Mathfest - Mathematical Association of America, Online. "On Morita Equivalence of Inverse Hulls of Markov Shifts."
2021	Young Mathematicians Conference, Ohio State University, Online. "On Morita Equivalence of Inverse Hulls of Markov Shifts."

## UPCOMING PRESENTATIONS

2022	AMS-PME, Joint Mathematical Meetings, Seattle WA. "A Definition of Open Balls."
2022	AMS, Joint Mathematical Meetings, Seattle WA. "On Morita Equivalence of Inverse Hulls of Markov Shifts."

## EXTRACURRICULAR ACTIVITIES

2020	National Parliamentary Debate Association 2 <sup>nd</sup> Position.	NPTE
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