



The First Packaging Program

Founded in 1952, MSU School of Packaging is the first packaging program in the history of high education.











Proven Record of Success

#1

Ranked #1 in packaging program rankings.

40%

~40% of packaging graduates come from MSU each year.



The only packaging Ph.D. degree offered in the US.

10,000

Conferred over 10,000 degrees since its beginning.



Alumni span industries and global Fortune 500 companies.

18

School of Packaging faculty hold more than 18 patents.

600

Approximately 600 undergraduate and graduate students today.

\$737K

More than \$737,000 in corporate-sponsored research.



Comprehensive Curriculum



Calculus



Physics



Chemistry



Statistics



Plastics



Paper



Metal/Glass



Distribution



Supply Chain



Design



Software Tools



Lab Work



Consumer Design



Automotive



Medical



Food



Sustainability (LCA)



Global Impact

We teach the teachers.

Our Ph.D. graduates teach at universities around the world.



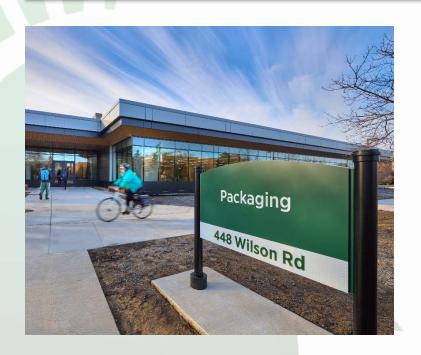


Continued Investment in the Future





Recently Completed: \$10M Building Renovation







Packaging 2.0



Expand enrollment to 1000+



Expansion of world-class labs



Competitive faculty ratio

Vision: undisputed global packaging education leadership

...and doing this on the strength of our inclusive, collaborative culture



Opportunities for Corporate Partnerships



Corporate Sponsored Research



Talent Pipeline



Equipment Gifts



Technology Licensing



Cash Gifts



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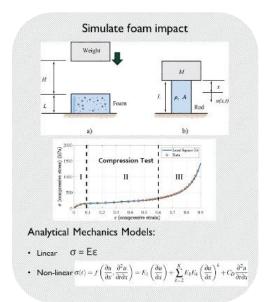




Amin Joodaky

Assistant Professor

Dr. Joodaky's research focuses on shock, vibration and packaging design optimization.









Laura Bix

Professor And Assistant Dean For Teaching, Learning And Academic Analytics

Dr. Bix's research focuses on quantifying the interface between people and packaging (perceptually, cognitively and physically) with the ultimate goal of improving health outcomes.









Qiang Yang

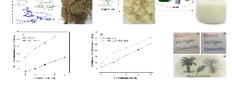
Assistant Professor

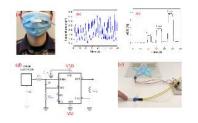
Dr. Yang's research is in the areas of cellulosic packaging.

Chemical processing of wood



Cellulose nanofiber from cow manure





Porous paper humidity sensor





Functionalization of Cellulose





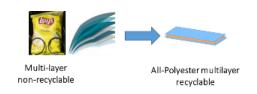
Muhammad Rabnawaz

Associate Professor

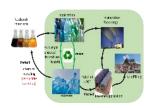
Dr. Rabnawaz's research focuses on the development of new biodegradable polymers from renewable resources, high-barrier materials, sustainable adhesives, sorbents for PFAS treatment, smart coatings, and plastic recycling.



Recycle mixed plastics



Multi-layer recyclable plastic



PET recycling



Thermally sealable paper bag (replace plastic bags)



Non-plastic paper coatings





Eva Almenar

Professor

<u>Dr. Almenar's</u> research focuses on developing packaging materials and technologies with an emphasis on active packaging for the delivery of high-quality and safe food. Most of this novel packaging is made from renewable feedstocks, including by-products from processed food

Studies on the use of different agricultural wastes for food packaging applications



Study on e-commerce food and beverage packaging





Monireh Mahmoudi

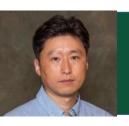
Assistant Professor

New
mathematical
models to
optimize logistics
of reusable
packaging
systems



Packaging's role in reducing food waste



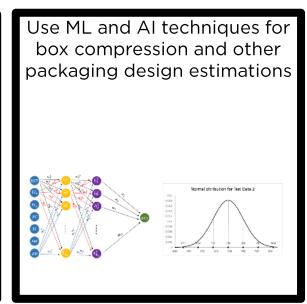


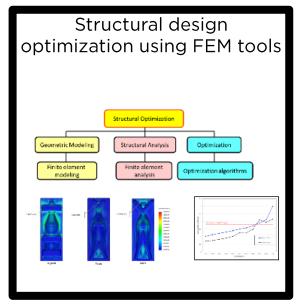
Euihark Lee

Assistant Professor

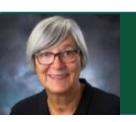
Develop packaging problem solving solutions using ML web scraping for packaging issues. Relate package key words in online customer reviews to shipping damage.







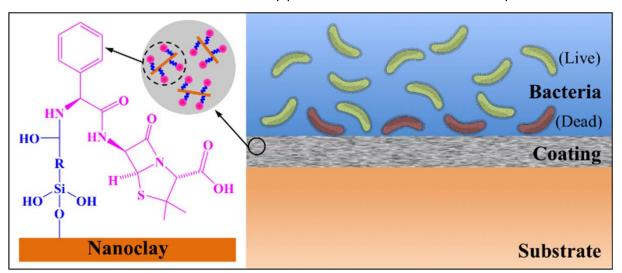




Maria Rubino

Professor

Dr. Rubino's research focuses on the mass transfer of vapors, gases, and additives in polymers and packaging systems, and the development of packaging systems based on active surfaces through the application of functional nanoparticles.



Nano particle deposition onto films for anti-microbial and active surface properties





Laurent Matuana

Professor

Plant-based (corn, sugar beets) polymers with properties similar to PP. Nanoscale crystals from wood waste (food grade approved), that improve barrier properties. Commercially available now through MSU IP office.



Unpackaged (stored at 23°C for 2 d)



Packaged in PLA/CNC filr (stored at 23oC for 2 d)

Insulating packaging films in place of foam or laminated layers. Recyclable mono polymer from low melt PLA. Example: food wrapper application.





Rafael Auras

Professor

Dr. Auras' research focuses on mass transfer in polymers, biodegradable and compostable polymers, life cycle assessment, packaging waste, and sustainable packaging systems.

