Bioengineer receives new award from Chan Zuckerberg Initiative

UC San Diego bioengineering professor Brian Aguado is one of 25 recipients of the Chan Zuckerberg Initiative's new award, which is intended to support the efforts of outstanding early- to mid-career researchers with a track record of promoting equity.

Structural engineer honored with Revelle Medal

Computer science Professor Tajana Simunic Rosing has won the 2022 UC San Diego Revelle Medal, which recognizes current and former faculty members with a record of excellence in teaching, research, and service. Rosing’s work has had practical applications in optimizing data analysis in the cloud, at the edge and in the cloud, as well as in- and near-memory and storage processing. She has also demonstrated a disproportionate level of significant and broad influence in her field of research, as evidenced by her receipt of the 2022 University Research Award from the Semiconductor Industry Association and the Semiconductor Research Corporation.

UC San Diego ranked 8th globally for most influential researchers.

A remarkable 16 faculty and research scientists at the UC San Diego Jacobs School of Engineering are among the world's most influential researchers in their fields, according to the 2022 Clarivate listing of Most Highly Cited Researchers in the World. The list highlights researchers who have demonstrated a disproportionate level of significant and broad influence in their field of research. Engineering is now a participant in the world's top 10 most influential researchers in the world, with UC San Diego ranked 8th globally.

An experiment designed by UC San Diego structural engineering Professor Ingrid Tomac was launched to the International Space Station to improve our ability to prevent mudslides after a fire. Tomac recently won a grant from the National Science Foundation to fund experiments that would help better understand the complex interactions between the atmosphere and the land surface during a wildfire. Tomac’s research is helping to develop models that can predict the behavior of mudslides during and after wildfires, and her experiments are being used to test these models. Tomac is also working on a project that aims to determine how well cross-laminated timber (CLT) buildings can withstand earthquakes. The project is being funded by the National Science Foundation and UC San Diego’s shake table is being used to test the buildings. The project is expected to be completed by 2023.

Algorithm predicts properties of new materials instantaneously

UC San Diego computer science professor Tajana Simunic Rosing has developed a new algorithm that can predict the properties of new materials instantaneously. This algorithm, called fastML, uses machine learning to predict the properties of new materials instantaneously, which is much faster than traditional methods. This is a significant breakthrough in the field of materials science, as it allows researchers to quickly and accurately predict the properties of new materials before they are even created. This will help accelerate the development of new materials with exceptional properties, such as those needed for safer buildings and more energy-dense electrodes and electrolytes for rechargeable lithium-ion batteries.

Researchers are working on a new project to develop a better model to predict mudflow. This model is being designed to help researchers better understand the complex interactions between the atmosphere and the land surface during a wildfire. The project is being funded by the National Science Foundation and UC San Diego’s shake table is being used to test the model. The project is expected to be completed by 2023. In addition, a team of engineers and nanoengineers at the UC San Diego Center for Wearable Sensors is working on developing a new sensor for monitoring gut metabolites in real-time. This sensor is being designed to provide continuous monitoring in the intestinal environment, which was not possible before. This feat of technological integration could unlock new understanding of intestinal metabolite composition, and give scientists the ability to better understand the function of the gut.

UC San Diego Jacobs School of Engineering

Albert (“Al”) P. Pisano, Dean

Sincerely,

UC San Diego Jacobs School of Engineering

As we close out 2022, I am profoundly grateful for everything we have accomplished this year. UC San Diego is working to create new opportunities for STEM students to develop digital storytelling skills. We are also working to create new opportunities for STEM students to develop digital storytelling skills. At the same time, we are working to create new opportunities for STEM students to develop digital storytelling skills. We are also working to create new opportunities for STEM students to develop digital storytelling skills. Behind the scenes, I’m working to help finalize a new effort to create new opportunities for STEM students to develop digital storytelling skills. This kind of work is being done in conjunction with the creation of a new laboratory to develop new opportunities for STEM students to develop digital storytelling skills. At the same time, we are working to create new opportunities for STEM students to develop digital storytelling skills. We are also working to create new opportunities for STEM students to develop digital storytelling skills.

Watch this space for updates in early 2023. This kind of work is being done in conjunction with the creation of a new laboratory to develop new opportunities for STEM students to develop digital storytelling skills. At the same time, we are working to create new opportunities for STEM students to develop digital storytelling skills. We are also working to create new opportunities for STEM students to develop digital storytelling skills. Behind the scenes, I’m working to help finalize a new effort to create new opportunities for STEM students to develop digital storytelling skills. This kind of work is being done in conjunction with the creation of a new laboratory to develop new opportunities for STEM students to develop digital storytelling skills. At the same time, we are working to create new opportunities for STEM students to develop digital storytelling skills. We are also working to create new opportunities for STEM students to develop digital storytelling skills.

Thinking about the value of combined skill sets inevitably pulls me toward well-trodden family lore. As a high school junior, I recently learned to compute the volume of conic sections, and I showed my dad how to use this skill. This is a testament to the value of combined skill sets. As a high school junior, I recently learned to compute the volume of conic sections, and I showed my dad how to use this skill. This is a testament to the value of combined skill sets. As a high school junior, I recently learned to compute the volume of conic sections, and I showed my dad how to use this skill. This is a testament to the value of combined skill sets. As a high school junior, I recently learned to compute the volume of conic sections, and I showed my dad how to use this skill. This is a testament to the value of combined skill sets. As a high school junior, I recently learned to compute the volume of conic sections, and I showed my dad how to use this skill. This is a testament to the value of combined skill sets.