

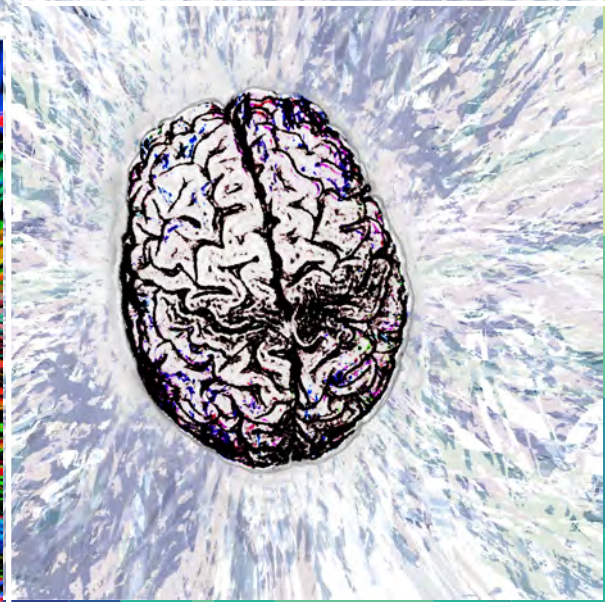
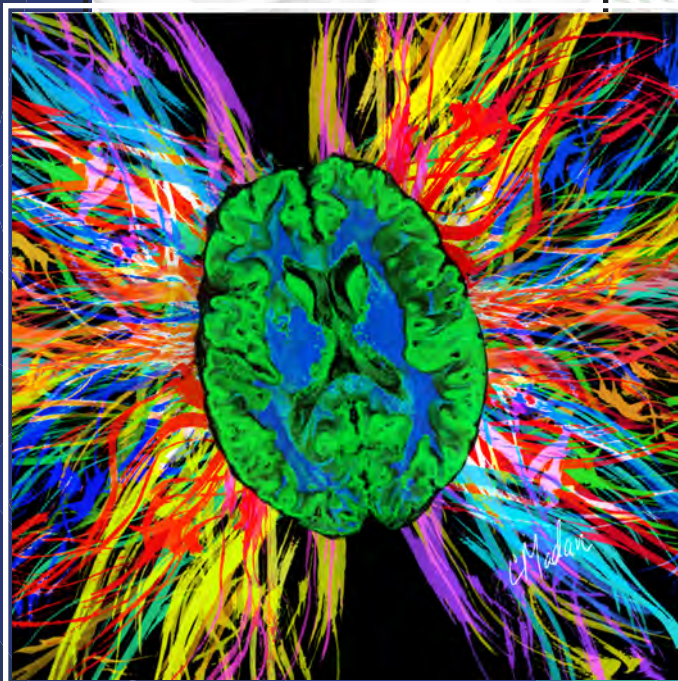
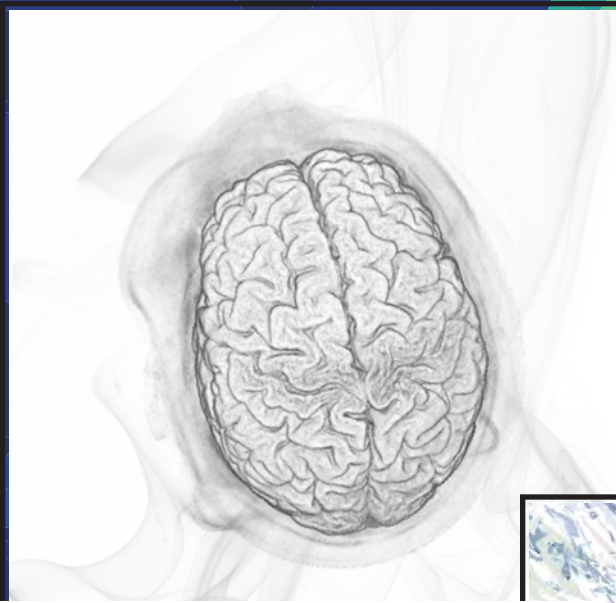
Eureka

University of Alberta Science Undergraduate Research Journal

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Eureka is a student-founded and student-run initiative whose mission is to promote the world class undergraduate research done in the faculty of science. This journal offers undergraduate scientists the unique opportunity to share their discoveries with the scientific world, while learning the peer review process. Most undergraduate students do not get to experience the publication process as part of their scientific education. Eureka is an educational institution, with a diverse team of reviewers from many scientific backgrounds. Through clear, effective scientific writing students will be able to work together with faculty members to promote University of Alberta science.

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ABOUT THE FRONT COVER

The front cover is a modified version of a piece called “Whole Brain” by Christopher Madan. Each of the brain images are artistic adaptations of an MRI of his own brain. Each panel combines both ‘art’ and ‘science’ features, as the common adage about the left hemisphere being logical and the right being artistic is largely incorrect. (Also, everyone uses more than 10% of their brain!) Christopher recently finished his Ph.D. in psychology. You can find out more about Chris’ research on his website: <http://www.cmadan.com>.

ABOUT THE BACK COVER

The back cover consists of images taken with the 14” telescope at the University of Alberta Observatory. The images depict the Sun, Saturn, Jupiter, as well as three of the surface of the Moon.

The current observatory was established in the summer of 2011, following the opening of the main CCIS building. The observatory contains 3 telescopes, each contained in their own dome. The smallest telescope is a 12” telescope used for public night-time observing. This telescope has been in the University’s possession since the late 1960’s. Prior to the CCIS observatory being built, it was located in the old observatory on top of the Fine Arts Building, and prior to that it was on top of the old Physics building. The medium telescope is a 14” telescope, also used for public observing. In addition to being used for night-time observing, this telescope can be outfitted with a solar filter to observe the Sun in visible light during the day. The largest telescope is a 20” research-grade telescope. This telescope was custom machined by the Department of Physics machine shop. This telescope is intended to be used for research, including undergraduate research projects.

In addition to research, the observatory is also used for outreach. The observatory currently offers free public observing on Thursdays, both during the day (for solar observing) and in the evening (for night-time observing) when the weather is favourable. The observatory’s Facebook (<http://www.facebook.com/UofAObservatory>) and Twitter (@UofAObservatory) post updates when the weather looks good for public observing. The observatory is also used for outreach with Edmonton-area schools, giving students a chance to learn about astronomy, as well as look at the stars through the telescopes.

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EDITOR'S NOTE

Research is a Journey of Self-Discovery	1
<i>Christopher R. Madan</i>	

INTERVIEWS

A student experience in neurosurgery: How summer research can equate to much more than a publication	2
<i>Mitchell P. Wilson</i>	
Women in Research	4
<i>Helena Zakrzewski & Yvonne Y. Chen</i>	
Understanding Life in Academia: A Guide for Inspired Undergraduates	7
<i>Christopher R. Madan</i>	

PUBLISHED ABSTRACTS

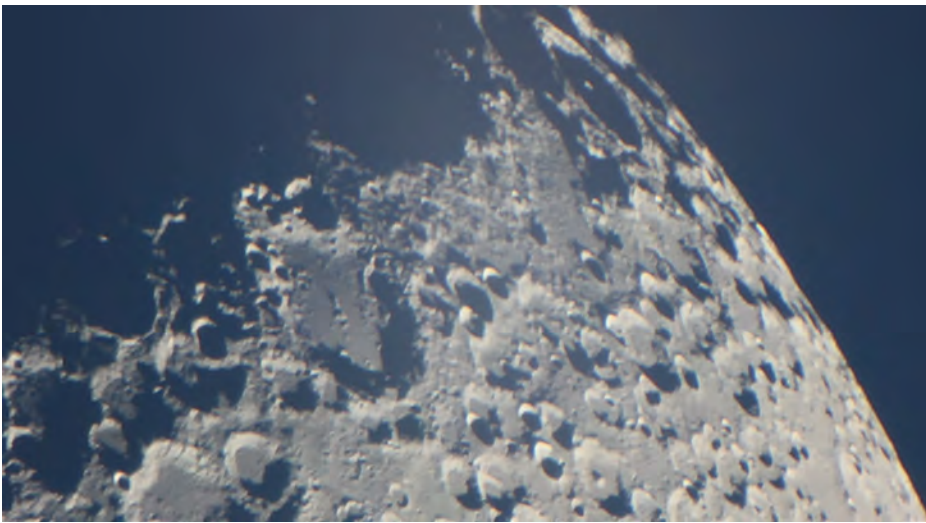
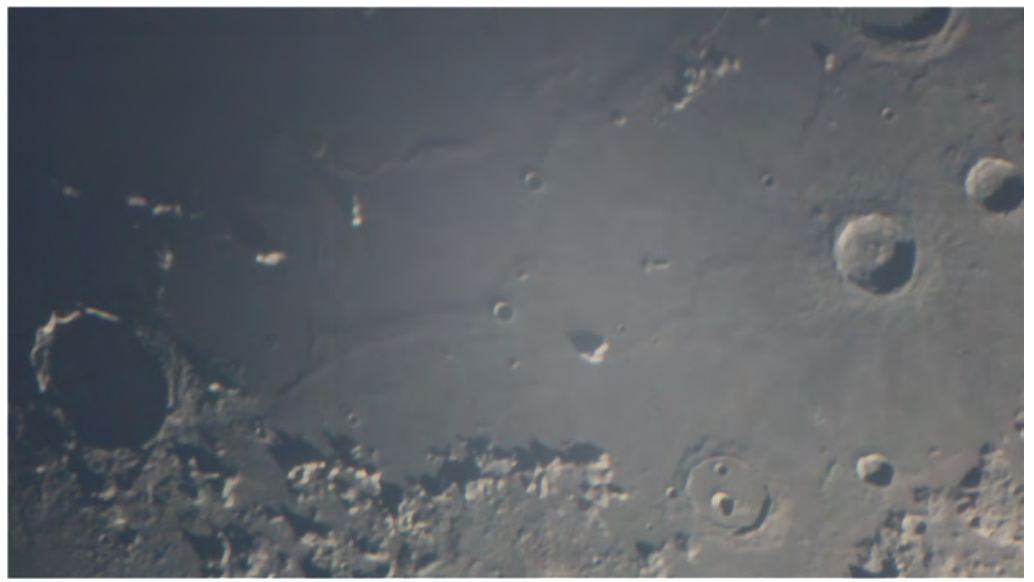
Development of an Ungulate Mammalian Hair Key	9
<i>Patrick Jones, Sophie Sfez, & Peter T. Knamiller</i>	

ARTICLES

Candle in the Wind: Goodbye Fossil	10
<i>Eireen Ng Wong Hing</i>	
Determining a Relation between X-ray Luminosity and Orbital Period of X-ray Binaries	13
<i>Tyler Naffin</i>	
A Brick-Sorting LEGO Robot	19
<i>Arturo Pérez & Michael R. W. Dawson</i>	
Giant Steps In The Interpretation Of A Musical PDP Network	24
<i>Joshua Hathaway & Michael R. W. Dawson</i>	
BroilerBreak!: Partitioning ME in Broiler Breeders	30
<i>Airell G. C. DesLauriers, Martin J. Zuidhof, Valerie Carney, & Brenda L. Schneider</i>	
Rainbow on a Chip: Experimental Observation of the Trapped Rainbow Effect Using Tapered Hollow Bragg Waveguides	35
<i>Aaron Melnyk</i>	
An Introduction to Golay Complementary Sequences	40
<i>Elana Kalashnikov</i>	
Examining Eating Habits of Undergraduate Psychology Students	49
<i>Wendy Salvisberg, Peter Tom, & Sandra Ziolkowski</i>	

REVIEWS

A Science of Evil: An Exploration into Terror Management Theory and a Psychoanalytic Theory of Religious Extremism	57
<i>Sayeed Devraj-Kizuk</i>	



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