

**The 2013 University Physics Competition  
Results Announcement – January 15, 2014**

We are very pleased to announce the results of the fourth annual University Physics Competition. The University Physics Competition is an international contest for undergraduate students, who worked in teams of up to three students at their home colleges and universities all over the world, and spent 48 hours during the weekend of November 15, 16, & 17 2013, analyzing an applied scenario using the principles of physics, and writing a formal paper describing their work.

In this year's competition 121 teams submitted papers for judging. 52 teams selected "Problem A - Gravitationally Assisted Jupiter Orbital Entry" and 69 teams selected "Problem B – Extraterrestrial Life."

For Problem A, the Gold Medal Winning Team was:

**Team 538: Shouzhen Gu, Shun Da Suo, & Wuhan Zhou**  
**Institution: University of Waterloo**  
**Faculty Sponsor: Robert Mann**

For problem B, the Gold Medal Winning Team was:

**Team 611: Ryan Endsley, Christina Kreisch, & Nathaniel Stein**  
**Institution: Washington University in St Louis**  
**Faculty Sponsor: Francesc Ferrer**

Of the 121 paper submitted in the 2013 University Physics Competition, 2 teams (1.7%) were ranked as Gold Medal Winners, 22 teams (18%) were ranked as Silver Medal Winners, 32 teams (26%) were ranked as Bronze Medal Winners, and 65 teams (54%) were ranked as Accomplished Competitors.

We extend our sincerest congratulations to each of the 121 competing teams for their excellent work and their enthusiasm for physics!

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Carroll College; Helena, MT  
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**Problem A - Gravitationally Assisted Jupiter Orbital Entry**

<b>Team #</b>	<b>Sponsor/Students</b>	<b>Institution</b>	<b>Problem</b>	<b>Rank</b>
538	Robert Mann Shouzhen Gu, Shun Da Suo, Wuhan Zhou	University of Waterloo	A	Gold Medal
501	Andreas Dewanto Alpin Novianus Tatan, Winson Tanputraman, Evan Laksono	National University of Singapore	A	Silver Medal
503	Shijie Zhong Tyler Reichanadter, Kaitlyn Parsons, Jordan Stern	University of Colorado Boulder	A	Silver Medal
506	Sihui Wang Zhenyu Liu, Yunxuan Li, Wenjing You	Nanjing University	A	Silver Medal
520	Andrew Frey Nils Deppe, Jared Enns, Nick Reid	University of Winnipeg	A	Silver Medal
539	Kirk Madison Kahan Dare, Joel Foo, Kai Ogasawara	University of British Columbia	A	Silver Medal
578	William D. Thacker John Douglas Cavin, Timothy R. Schmitz, Nicholas R. Walker	Saint Louis University	A	Silver Medal
608	Greg Tarle Nicholas Rombes, Isabel Bonachera Martin	University of Michigan	A	Silver Medal
617	Ed Greco Colin Campbell, Arthur Lin, Jared Huggins	Georgia Institute of Technology	A	Silver Medal
619	David Morin Saahil Mehta, Jaimal Ichharam, Eric Anscheutz	Harvard College	A	Silver Medal
502	Jakub Zakrzewski Konrad Szymanski, Wojciech Tarnowski, Adam Wyrzykowski	Jagiellonian University	A	Bronze Medal
504	Wang Sihui Zhang Puhan, Zhang Youtian, Li Yezheng	Nanjing University	A	Bronze Medal
517	Kristin Schleich Vincent Wai Sum Wong, Yue Li, Sichao Kan	University of British Columbia	A	Bronze Medal
519	Min-Kyo Seo Erwin Handoko Tanin, Dinh Quy Duong, Ulin Nuha Abdul Qohar	KAIST	A	Bronze Medal
527	Mingwen Xiao Jiao Jiao, Jianrong Li, Yuliang Fang	Nanjing University	A	Bronze Medal
542	Channon Price Stanley Edwin, Sean Lemley, Elliot Jacksch	University of Alaska Fairbanks	A	Bronze Medal
556	Dr. Tapati Dutta Soham Bhattacharya, Soumyananda Goswami, Indranil Roy	St. Xavier's College, Kolkata, India	A	Bronze Medal
561	Jinjun Liang Chengyang Wan, Zhuoyu Ding, Liuyi Wu	Xi'an Jiaotong-Liverpool University	A	Bronze Medal
583	Mark Van Raamsdonk Mathias Hudoba de Badyn, Justine Munich, Andrew Kuba Karpierz	University of British Columbia	A	Bronze Medal
599	Matthias Grosse Perdekar Parth Chaitanya Dave, Andrew Lei, Eric Ahn	University of Illinois at Urbana-Champaign	A	Bronze Medal
609	Costel Constantin Yosyp Schwab, Brock Crook, Kirill Korsak	James Madison University	A	Bronze Medal
624	Cristian Bahrim Keeley Townley-Smith, Jason Dark, Sara-Jeanne Vogler	Lamar University	A	Bronze Medal
637	Xiaobao Yang Jun Guo, Zihong Liu, Guanyou He	South China University of Technology	A	Bronze Medal
509	Ian Affleck Jake Bian, Donald Chacon-Taylor	University of British Columbia	A	Acc. Competitor
514	Dr Reem M. Altuwirqi Maha Saeed Alamoudi, Zainab Abdullah Jaber, Lujain Ali Al-marhabi	King Abdulaziz University	A	Acc. Competitor
515	Zackaria Chacko Nathan Ng, Michael Roberts, Matthew Calkins	University of Maryland	A	Acc. Competitor

525	Daniel James Abhinav Jindal, Armanpreet Pannu, Norbert Kapa	University of Toronto	A	Acc. Competitor
534	Joseph Ribaud Hope Murphy, Salvatore Saporito, Jonathon Hoover	Utica College	A	Acc. Competitor
537	Yanting Li Daqi Xu, Yilun Zhang, Jidong Liu	Shanghai JiaoTong University	A	Acc. Competitor
541	Sihui Wang Li Du, Kongtao Chen, Jia'an Qi	Nanjing University	A	Acc. Competitor
544	Jason Goodman Emerald Bresnahan, Ryan Dill, Ryan Farber	Wheaton College	A	Acc. Competitor
547	Dr. Winston Roberts Christopher Mertin, Alec Fisher, John Norris	Florida State University	A	Acc. Competitor
548	Rajesh Singh Shivam Agrawal, Karan Dsilva, Vishesh	St. Xaviers College, Mumbai	A	Acc. Competitor
554	Mateusz Krzysosiak Yin Gongshun, Miao Yichen, Ge Haowen	Shanghai Jiao Tong University	A	Acc. Competitor
562	Prof. Daniel F. V. James Jenny Wu, Emma Hansen, Ringo Cheung	University of Toronto	A	Acc. Competitor
563	Jinjun Liang Anda Zhao, Chenhao Zhao, Haoran Wen	Xi'an Jiaotong-Liverpool University	A	Acc. Competitor
568	Alfredo Aranda Alejandra Gaitan-Montejo, Paulina Gonzalez-Alatorre, Danahe E. Garcia-Ramirez	Universidad de Colima	A	Acc. Competitor
570	Andrew J. Gerrard Zheng Ju, Dexter Porter, Jose Mendez	New Jersey Institute of Technology	A	Acc. Competitor
573	Costel Constantin Alex Loving, James Devilbiss, Greg Houchins	James Madison University	A	Acc. Competitor
575	Ruth Saunders Patrick Steffanic, Chaney Lao, Noah Miller	California Polytechnic State University	A	Acc. Competitor
579	Hanan Akhdar Manal K. Aldail	Imam Muhammad bin Saud Islamic University	A	Acc. Competitor
588	Athanasios Petridis Joel Venzke, Taylor Harville, Danny Deeter	Drake University	A	Acc. Competitor
593	Jinjun Liang Rui Pei, Boheng Luan, Bingnan Luo	Xi'an Jiaotong-Liverpool University	A	Acc. Competitor
595	Abhijit Sarkar Robert Schleicher, Santino Cozza	The Catholic University of America	A	Acc. Competitor
597	Naomi Makins Anshil Bhansali, Harshil Kamdar, Hardik Parikh	University of Illinois at Urbana-Champaign	A	Acc. Competitor
602	Lee Sawyer Rachael Rogers, Andrew Touchet, Saraj Tamrakar	Louisiana Tech University	A	Acc. Competitor
604	Lee Sawyer Hieu Nguyen, Victor Powell, George Walter Carpenter III.	Louisiana Tech University	A	Acc. Competitor
610	Paulo Acioli Thomas McLaughlin, Max Hansen	Northeastern Illinois University	A	Acc. Competitor
616	Ed Greco Elwin Martin, Thomas Forrest Kieffer, Aishwarye Chauhan	Georgia Institute of Technology	A	Acc. Competitor
631	Matthew C Fleenor Taylor Ferebee, Brandon Peterson, Jared Thomas	Roanoke College (VA)	A	Acc. Competitor
634	Dimitris Vassiliadis Caitlin Ahrens	West Virginia University	A	Acc. Competitor
635	Dr. Philip T. Spickler Matthew Wampler, Trinh Le, Sean Fishgold	Bridgewater College	A	Acc. Competitor

**Problem B - Extraterrestrial Life**

<b>Team #</b>	<b>Sponsor/Students</b>	<b>Institution</b>	<b>Problem</b>	<b>Rank</b>
611	Francesc Ferrer Ryan Endsley, Christina Kreisch, Nathaniel Stein	Washington University in St Louis	B	Gold Medal
505	Sihui Wang Hongfei Ji, Lan Chen, Si Chen	Nanjing University	B	Silver Medal
507	Wang Sihui Zeng Pei, Zhang Chuheng, Zhan Tao	Nanjing University	B	Silver Medal
513	Ying Cheng Yuan Xin, Xue Song, Shuyi Li	Nanjing University	B	Silver Medal
521	Matthew Beaky David Milligan, Will McGrew, Arnold Schwemlein	Juniata College	B	Silver Medal
522	Andrew Cumming Eric Hanson, Chris Bahr, Alex May	McGill University	B	Silver Medal
528	Daniel James Mark Meschino, Aileen Samun, Suhas Chalotra	University of Toronto	B	Silver Medal
530	Channon Price Mike Saccone, Haley Nelson, Thomas Edwards	University of Alaska Fairbanks	B	Silver Medal
551	Dr Nicola Bonini Aimilios Pagouropoulos, Marina Genevieve Ingrid Mira Eriksson	King's College London	B	Silver Medal
576	Dr. Jo-Anne Brown Robert Ridgway, Luis Welbanks, Brian Andrade	University of Calgary	B	Silver Medal
586	Daniel James Victor Chan, Vismay Shah, Jianan Wang	University of Toronto - St. George	B	Silver Medal
596	Raffi Budakian David Rhodes, Zubin Pahuja, Yutao Ma	University of Illinois at Urbana-Champaign	B	Silver Medal
607	John Lindner Michael Bush, Yashasvi Lohia, Dylan Hamilton	The College of Wooster	B	Silver Medal
639	Mateusz Krzyzosiak Liang Shucheng, Dong Yingda, Jiang Weifu	Shanghai Jiao Tong University Joint Institute	B	Silver Medal
510	Rui Shen Yidan Zhu, Zheyuan Zhu	Nanjing University	B	Bronze Medal
524	Huanyu Jia Miao Qi, Haoyi Dong, Guanghao Qu	Southwest Jiaotong University	B	Bronze Medal
531	Andrew Frey Steven Casson, Sarah Campbell, Veronica Fieldhouse	University of Winnipeg	B	Bronze Medal
536	Mateusz Krzyzosiak Yanrong Li, Qian Wang, Jiajing Luo	Shanghai Jiao Tong University	B	Bronze Medal
540	Mateusz Krzyzosiak Liu Liang, Yang Chenjun	Shanghai Jiao Tong University	B	Bronze Medal
553	Mateusz Krzyzosiak Fan Zhiyi, Liu Yunsheng, Li Zhengbo	Shanghai Jiao Tong University	B	Bronze Medal
564	Daniel Reich Vittorio Loprinzo, Ben Rosser, Joseph Cleary	Johns Hopkins University	B	Bronze Medal
569	Professor Daniel James Luke Vanden Bosch, Jahnavi Shah, Subin Kim	University of Toronto	B	Bronze Medal
571	Tanaya Bhattacharyya Subhadip Roy, Sudip Chakraborty, Devarshi Chakrabarty	St. Xavier's College, Kolkata, India	B	Bronze Medal
585	Sihui Wang Xudong Zhang, Zhenqian Yang, Jiayue Li	Nanjing University	B	Bronze Medal
589	Athan Petridis Andrew Poehlman, Joseph Mullen, Sarah Hockett	Drake University	B	Bronze Medal
591	Jay Kikkawa Samul Lobel, Andrew Maguire, Younghoon Koh	University of Pennsylvania	B	Bronze Medal

618	Ed Greco Casey Trimble, Nicholas Lucas, Shivang Sullere	Georgia Institute of Technology	B	Bronze Medal
620	Nirav Mehta Liam Fox, Cameron Martin, Nicholas Toffoletto	Trinity University	B	Bronze Medal
622	Mateusz Krzyzosiak Li Shizun, Sun Haitian, Yuan Peng	Shanghai Jiao Tong University	B	Bronze Medal
623	Dan Reichart H. Thankful Cromartie, Max Hays, Evan Bluhm	University of North Carolina at Chapel Hill	B	Bronze Medal
629	Daniel James Jordan Silverman, Yang Yang, Jordan Hofmann	University of Toronto	B	Bronze Medal
632	Jason Harlow Eric Raju, Ahmet Balcioglu	University of Toronto St. George Campus	B	Bronze Medal
641	Mateusz Krzyzosiak Wang Zeming, Fan Yiming, Dong Tianlai	Shanghai Jiao Tong University	B	Bronze Medal
508	Mr Franklin Nnaemeka Or Egbo Okwudili Daniel, Nwaruh Blessing Chukwubuike, Ejimnkeonye Emmanuel Ubakanachi	University of Nigeria, Nsukka, Enugu State Nigeria	B	Acc. Competitor
518	Alfredo Aranda Julio Virrueta, Jorge A. Torres-Espinosa, Luis Barajas-Lopez	Universidad de Colima	B	Acc. Competitor
526	Dr Reem M. Altuwirqi Suaad Al-Sakkaf, Fatimah Salem	King Abdulaziz University	B	Acc. Competitor
529	Mateusz Krzyzosiak Xu Pengfei, Zhou Shixiang, Wang Kaiwei	Shanghai Jiaotong University	B	Acc. Competitor
533	Young-June Kim Ramanjit Sohal, Hubert Lin, Tianchen Zhao	University of Toronto	B	Acc. Competitor
535	Mateusz Krzyzosiak Qinyue He, Jiahao Jiang, Chen Luo	Shanghai Jiao Tong University	B	Acc. Competitor
545	Jason Goodman Katrina Dauphinais, Christopher Bilbo, Brent Landry	Wheaton College	B	Acc. Competitor
546	Jason Goodman Gaozan Ding, Yicheng Zhu	Wheaton College	B	Acc. Competitor
550	Ronald Kumon Jonathan Zeiders, Nicholas Sovis	Kettering University	B	Acc. Competitor
552	Reem Altuwirqi Mysaa Ghassan Alsaddiki, Fatimah Fayez Habis, Awsaf Awad Allah Al-Selami	King Abdulaziz University	B	Acc. Competitor
557	Dr. Bikram Phookun Rahul Mehra, Anirudh Gundhi, Abel Thayil	St. Stephen's College, Delhi	B	Acc. Competitor
558	Jinjun Liang Yifan Zhao, Yinchao Zhao, Meng Wei	Xi'an Jiaotong-Liverpool University	B	Acc. Competitor
559	Jinjun Liang Qing Lan, Taicheng Liu, Yuhua Lu	Xi'an Jiaotong-Liverpool University	B	Acc. Competitor
560	Jinjun Liang Chen Zhang, Qianying Liu, Jiayu Cong	Xi'an Jiaotong-Liverpool University	B	Acc. Competitor
565	Andrew Frey Allison Kolly, Gabriel Chernitsky, Dean Mikulik	University of Winnipeg	B	Acc. Competitor
566	Jinjun Liang Shaotong Wang, Chenxia Gu, Boya Li	Xi'an-Jiaotong Liverpool University	B	Acc. Competitor
567	Misty Bentz Sawaiz Syed, Terence Fisher, Matt Rager	Georgia State University	B	Acc. Competitor
572	Seyed Ali Asqar Alavi Farahnaz Sarvi Bazkhane, Zeinab Dashtebani, Masood Valipour	Hakim Sabzevari University	B	Acc. Competitor
577	Priscila Alves da Silva Guilherme de Sousa	Colégio Técnico de Lorena - EEL/USP	B	Acc. Competitor
580	Daniel James Aliya Nur Babul, Alyf Janmohamed	University of Toronto	B	Acc. Competitor

584	Gor Hovsepyan Hayk Sargsyan, Asya Arzumanyan	Yerevan State University	B	Acc. Competitor
587	Susan Gardner Nathan Rice, Chloe Keeling, Patrick VanMeter	University of Kentucky	B	Acc. Competitor
590	Jinjun Liang Yangyu Wang, Haiyan Xu, Yan Cai	Xi'an Jiaotong-Liverpool University	B	Acc. Competitor
592	Jinjun Liang Junchang Hu, Sida Hu, Jingfan Zhang	Xi'an Jiaotong-Liverpool University	B	Acc. Competitor
594	Mihai Stafe Elena Sorina Lupu	Politehnica University of Bucharest, Romania	B	Acc. Competitor
598	Peter Abbamonte Leo Breston, Erin Emrath, Isaac Carrasquillo	University of Illinois at Urbana-Champaign	B	Acc. Competitor
603	Lee Sawyer Joshua Wilson, Matthew Condon, Caylin Colson	Louisiana Tech University	B	Acc. Competitor
605	Adele Poynor Brooke Ollander, Brandon Buchanan, Joe Tonzo	Allegheny College	B	Acc. Competitor
606	Kevin T. Pitts Jiacheng Xu, Zihao Yu, Pufan Liu	University of Illinois at Urbana-Champaign	B	Acc. Competitor
614	David Hogg Mohamad Saleh, Adam Reyes, Michael Abraham	New York University	B	Acc. Competitor
615	Jinjun Liang Shuocun Li, Jialin Wang, Lin Wang	Xi'an Jiaotong-Liverpool University	B	Acc. Competitor
626	Janis McKenna William Huang	University of British Columbia	B	Acc. Competitor
627	Janis McKenna Yinlin Li, Andrea Der	University of British Columbia	B	Acc. Competitor
630	Hardin Dunham Douglas To, James Bufkin, Chris Madrid	Angelo State University	B	Acc. Competitor
636	Juan Cabanela Meredith McLinn, Laura Herzog, Ben LaMay	Minnesota State University Moorhead	B	Acc. Competitor
640	Chang Sheh Lit Adrian Nugraha Utama, Cheah Sin Ean Donovan, Hue Jun Hao	National University of Singapore	B	Acc. Competitor