

CURRICULUM VITAE

PERSONAL INFORMATION

Name: Juan Nicolas Malagon

E-mail: nicolasmalagon@gmail.com

Address: 456 Kennaston Blvd
Winnipeg, Manitoba, Canada

Phone: (226) 219-5725

Canadian citizen

EDUCATION AND RESEARCH EXPERIENCE

Assistant Professor at the Canadian Mennonite University **2019-Present**

Research Associate in Cell Biology with Dr. Ellen Larsen **2017-2019**
University of Toronto, Toronto, Canada

HHMI Post-doctoral fellow in cancer biology with Dr. Tian Xu **2015-2017**
Yale University, New Haven, USA

Ph.D. Cell Biology **2007-2013**
University of Toronto, Toronto, Canada

- **Thesis:** Sex combs in motion: the dynamics of cellular processes involved in *D. melanogaster* sex comb rotation

B.Sc., Biology **2000-2005**
National University of Colombia, Bogota, Colombia

PUBLICATIONS

- **Malagon J & Larsen, E.** (2020). Chapter four- Developmental Plasticity Induced by Either External or Internal Environment Co-opts Ancient Regulatory Networks. Guex, J., Torday, B., Miller Jr., William B. (Eds). Morphogenesis, Environmental Stress and Reverse Evolution. Switzerland: Springer International Publishing. https://doi.org/10.1007/978-3-030-47279-5_6
- **Malagon, J., Ho, E., Ahuja, A., Singh, R., Larsen, E.** (2018). Rotation of sex comb in *Drosophila melanogaster* requires precise and coordinated spatio-temporal dynamics from forces generated by epithelial cells. **PLOS Computational Biology**. 14 (10): e1006455
- **Discussed in the Node:** <http://thenode.biologists.com/sex-combs-in-motion-using-computer-simulations-and-mathematical-modeling-to-study-the-evolution-of-morphogenesis/research/>
- Ma, X., Lu, J., Dong, Y., Li Daming., **Malagon, J.** & Xu, T. (2017). PP6 Disruption Synergizes with Oncogenic Ras to Promote JNK- dependent Tumor Growth and Invasion. **Cell Reports**. Vol. 19, pp. 2657–2664

- **Malagon, J.** & Larsen, E. (2016). E. Signs of complexity in epithelial morphogenesis. **Acta Biológica Colombiana**. vol. 21, no. 3, pp.495-500
- **Malagon, J.** and Larsen, E. (2015). Chapter Four–Heredity and Self-Organization: Partners in the Generation and Evolution of Phenotypes. **International Review of Cell and Molecular Biology**. vol. 315, pp.153–181
- **Malagon, J.**, Ahuja, A., Sivapatham, G., Hung, J., Lee, J., Muñoz, S., Atallah, J., Singh, R., and Larsen, E. (2014). Evolution of *Drosophila* sex comb length illustrates the inextricable interplay between selection and variation. **PNAS**. September 30, vol. 111 no. 39, pp. E4103–E4109
Summary in PNAS: <http://www.pnas.org/content/111/39/14011>
- **Malagon, J.** (2006). In pursuit of evolutionary variation laws: Scale-free Networks. **Acta Biológica Colombiana**. vol. 11 no. 1
- Betancourt, A., Maldonado, A., Maldonado, R., A., Camargo, A., Guzman, A., Annicchiarico, I., Arroyave, J., **Malagon, J.**, Pardo L., Perez H., Ruiz A., Eljach, L., Camacho, M. (2002). Image Inversion Effect on Faces. **Acta Biológica**. vol.7 no. 2

Publications as supervisor of undergraduate research projects

- Waleed, K. & **Malagon, J.** (2016). Evolution of allometric changes in fruit fly legs: a developmentally entrenched story. **Acta Biologica Colombiana**. vol.21no. 3, pp. 509-519
- Kahn, T., Zhang, L., **Malagon, J.** (2013). Sex comb rotation in *Drosophila melanogaster*: changes in tissue length and cell extrusion. **Journal of Undergraduate Life Science**. vol. 7, pp. 20-26
- Long, Y., Zhang, L., **Malagon, J.** (2013). Changes in apical cell area and shape during sex comb rotation in *Drosophila melanogaster* **Journal of Undergraduate Life Science**. vol. 7, pp. 26-35
- Wang, M., Tan, J., **Malagon, J.** (2012). Cellular dynamics involved in the narrowing of the first tarsal segment of the first leg of *Drosophila melanogaster* females used as a control for male sex comb rearrangements. **Journal of Undergraduate Life Science**. vol. 6, pp. 42-46
- Lee, J., **Malagon J.**, and Larsen, E. (2011). The Case of Fly Sex Combs: Using a Model Organism to Infer Mechanisms of Morphological Evolution. **Journal of Undergraduate Life Science**. vol. 5, pp. 28-31

Manuscripts in progress

- Goertzen, S., Chernet, D., Klassen, L, **Malagon, J.** (Submitted). Using early *Drosophila melanogaster* as a system to study circulating tumor cell movement *in vivo*. **Proceeding of Manitoba's Undergraduate Science and Engineering Research**.
- Lennea, J., Reimer, M., Epp, C. **Malagon, J.** (Submitted). Irregular oscillations in apical cell area during sex comb rotation in *D. melanogaster*. **Proceeding of Manitoba's Undergraduate Science and Engineering Research**.
- **Malagon, J.**, Ho, E., Long, Y., Atallah, J., Singh, R., Rice, G., Kopp, A., Fernandez, R.; Larsen, E. (In preparation). Cellular basis of sex combs rotation in *Drosophila melanogaster*

- Macias, S., Muñoz, S. **Malagon, J.** Different ways to measure kynurenine distribution in fruit fly fat-bodies. (In preparation).

HONORS AND AWARDS

- **Evo-Devo-Eco Network (EDEN).** Research Exchange Funds (2013) \$3000
Visiting scholar at Kopp Lab from Feb to April 2014
- **Cell and Systems Biology at University of Toronto.** \$1000
Zoology International Scholarships (2007)

RESEARCH EXPERIENCE

Canadian Mennonite University, Canada 2019 –Current

Assistant professor

- **Project 1:** Understanding the mechanism involved in changing apical cell area in developing legs of *D. melanogaster*
- **Project 2:** Using *Drosophila* legs to investigate cancer cell dynamics

University of Toronto, Toronto, Canada 2017-2019

Research Associate in Cell Biology *with Dr. Ellen Larsen*

- **Project 1:** Understanding the mechanisms involved in regulating cell density and their implications for carcinogenesis and evolution

Yale University, New Haven, USA 2015-2017

HHMI Post-doctoral fellow in cancer biology *with Dr. Tian Xu*

- **Project 1:** Developed an imaging technique to visualize tumor development in various in vivo systems
- **Project 2:** Imaged tumor growth and invasion in developing cancerous epithelia with different genetic backgrounds in synergy with oncogenic Ras

University of California, Davis 2013

Visiting scholar *with Dr. Artyom Kopp*

- **Project 1:** The cellular basis of sex comb evolution

University of Toronto 2013-2015

Post-doctoral fellow *with Dr. Ellen Larsen*

- **Project 1:** Developed laser ablation technique on *Drosophila* pupal legs to perturb sex comb development
- **Project 2:** Led an international collaboration to use computer simulations to understand the cellular basis of sex comb evolution; manuscript forthcoming
- Prepared several manuscripts for publications including PNAS first-author paper

HISTORY OF MENTORSHIP OF TRAINEES

Summary of Undergraduate Mentorship Achievement

Mentoring of effectiveness	
Summer student publications	5 papers
Number of undergraduate research projects supervised	12 research projects
Undergraduate students trained	17 students
Undergraduate research posters	5 posters
Student career paths	
Medical School or health related careers	5 students
Graduate school in life science	4 students
MBA and Law school	3 Students

Training of graduate students:

Collaboration with Singh lab at McMaster University

2008-2009

Project 1: Cellular basis of sex comb evolution

PhD Student: Abha Ahuja

Achievement: I trained a PhD student, culminating in a PNAS publication and forthcoming manuscript.

Mentoring undergraduate students at CMU

2019-2020

Project 1: Cancer cell dynamics on fruit fly legs

Student: Dagem Chernet

Preliminary results: https://youtu.be/6RafzBE_t-0

Project 2: Changes in apical cell area in developing leg epithelia of *D. melaongaster*

Student: Jady Lennea, Malcolm Reimer, Christopher Epp

Preliminary results: <https://youtu.be/KMV0RIYfjFc>

Project 3: Circulatory tumours on fruit fly legs

Students: Dagem Chernet, Levi Klassen, Sonya Goertzen

Preliminary results: <https://youtu.be/B2IzfcNuVdg>

Mentoring undergraduate students: Research Opportunity Program

2010-2012

Project 1: Cell dynamics involved in the rotation of *Drosophila melanogaster* sex comb artificially selected for a low number of bristles

Student: Gabilan Sivapatham

Achievement: PNAS publication; Gabilan is currently a Resident Doctor at St. Michael's Hospital

Project 2: Cell dynamics involved in the rotation of *Drosophila melanogaster* sex comb artificially selected for a high number of bristles

Student: Julian Hung

Achievement: PNAS publication; Julian is currently at University of Toronto - Rotman School of Management

Project 3: Cell dynamics involved in the leg development of the *Drosophila melanogaster* female

Student: Marina Wang

Achievement: JALS publication; Marina is currently a Family Medicine Resident

Project 4: Phenotypic analysis of various mutations perturbing sex comb development

Student: Jiwon Lee

Achievement: PNAS and JALS publication; Jiwon at Michigan State University studying osteopathy

Project 5: Effect of perturbing sex determination genes in *Drosophila melanogaster* sex comb rotation

Student: Sheng Cheng

Achievement: Sheng is currently at the University of Western Ontario in the Biology PhD program

Project 6: RNAi Genetic Screening for genes perturbing *Drosophila melanogaster* sex comb development

Student: Fei Zhonghui

Achievement: Fei went to graduate school at the University of Toronto and is currently at York University Osgoode Hall Law School

Project 7: Cell dynamics of proximal region of the 1st tarsal segments in *Drosophila melanogaster*

Student: Luna He

Achievement: Luna is currently at the Loyola University in Chicago Law school

Project 8: Cell extrusion involved in sex comb rotation of *Drosophila melanogaster*

Student: Helen Tan

Achievement: Helen is currently at New York Medical College program in Physical Therapy

Project 9: Evolution of allometric changes in fruit fly forelegs

Student: Waleed Khan

Achievement: Acta Biol. Col. paper

Project 10: Changes in apical area and shape involved in sex comb rotation of *Drosophila melanogaster*

Student: Yongli Long

Achievement: JALS paper

UNIVERSITY TEACHING EXPERIENCE

CANADIAN MENNONITE UNIVERSITY

- Participated in different service committees to support the success of students with diverse cultural and educational backgrounds as well as learning styles
- Contributed to course and program curriculum development and renewals

Developed teaching and research strategies to adapt to the pandemic:

- Used a hybrid model of teaching, combining limited face-to-face interactions and online teaching into one cohesive experience
- Developed strategies to teach online courses including mastered Zoom and Moodle teaching tools, as well as recorded video-lectures and video training tutorials.
- Recorded video-tutorials where students learn how to analyze time-lapse of developing tissues

BIOL-1310 Cells and Energy Assistant Professor (2019-Current)
(Lecture and lab)

- 1ST year Introductory Biology course with 20-30 students
- Prepared and teach hand-on labs on fundamental topics in biology including how to use a light microscope, how to culture bacteria in a petri dish, diffusion and osmosis, among others.
- Lectured on fundamental topics on biology **with particular emphasis on human biology.**

BIOL-1020 The Genetic Revolution Assistant Professor (2019-Current)

- 1ST year course with 40-60 students
- Introduced both classical Mendelian genetics and modern molecular genetics
- Developed lectures on the history of genetics and led discussions on its implications to our society.

BIOL-2300 Genetics of Eukaryotes and Bacteria Assistant Professor (20019)
(Lecture and lab)

- 2ND year course with 10-15 students
- Prepared lecture/laboratory course on the mechanisms of inheritance and the nature of gene structure, composition, and function
- Used fruit fly as a system to teach hands-on labs on fundamental topics in genetics including mutations, expressivity, penetrance, recombination, triple point cross, among others.

BIOL-3400 Developmental Biology Sept to Dec 2020

- 3RD year course with 6 students
- Mentored students to develop research projects on fruit fly epithelial morphogenesis
- Lectured on fundamental topics on the field of developmental biology: main anatomical changes, hierarchy of gene activation, and cellular behaviours.

Future courses:

- BIOL-2300 Cell Biology Jan to April 2021

DEPT. OF CELL & SYSTEMS BIOLOGY, UNIVERSITY OF TORONTO

Topics in Molecular Biology Teaching assistant (2007-2012)

- 2nd year course with 50-100 students
- Lectured, recruited guest speakers, led discussion and review sessions regarding the histological aspects of the human nervous, respiratory, digestive and urinary systems
- Contributed to course and program curriculum development and renewal
- Worked within department and project teams to improve student success

Research Opportunity Program	Instructor (2010-2012)
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- 2nd and 4th year thesis project course with 8 students
- Worked with students one-on-one to tackle problems related to the research
- Developed lab exercises where students learn basic and specialized lab techniques, including dissections, fruit fly genetic screens, and the use of imaging software
- Supported the success of students with diverse cultural and educational backgrounds and learning styles

Developmental Biology	Guest Lecturer (2009)
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- Upper division seminar course with 8 students
- Lecture: Complex Theory in Biological Systems

DEPT. OF BIOLOGY, NATIONAL UNIVERSITY OF COLOMBIA

Theoretical Biology Interest Group	Coordinator and Lecturer (2005-2007)
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- Prepared and delivered lectures aimed at undergraduate students interested in theoretical biology
- Example of lectures: Scale-free networks and evolutionary biology; self-organization and biology.

Vascular Plant Biology	Teaching Assistant (2004)
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- 2nd year course with 50 students
- Led discussion, laboratory and review sessions
- Designed laboratory demonstrations

SELECTED PRESENTATIONS

- Malagon, J. & Larsen. E. 2015. **International keynote speaker. Symposium of Evolutionary Biology**, Armenia, Quindío, Colombia
Oral presentation: Sex comb rotation as a model to how some traits changes while others remain the same
- Malagon, J. & Larsen. E. 2014. **Evo-Devo conference**. Vienna, Austria.
Oral presentation: Sex comb rotation as a model to study development constraints.
- Malagon, J. & Larsen. E. 2011. **International keynote speaker. Symposium of Evolutionary Biology**. Medellin, Antioquia, Colombia.
Oral presentation: Signs of complexity in cell dynamics of an epithelial tissue: Cellular basis of sex comb rotation in Drosophila melanogaster.

EDITORIAL AND REVIEWER EXPERIENCE

- Scientific committee of the Boletín Colombiano de Biología Evolutiva.....2015-2017
- Abstract reviewer in Symposium of Evolutionary Biology, Cali Colombia2017
- Abstract reviewer in Symposium of Evolutionary Biology, Tunja Colombia..... 2015

- Poster and oral presentation reviewer in Symposium of Evolutionary Biology, Armenia, Colombia.....2015

STUDENT EVALUATIONS

1) Student: Sergio Andres Muñoz

Email: sergio0503@gmail.com

Project: Evolution comb shape of *Drosophila melanogaster*

Achievement: Sergio is currently at the Dalhousie University in the Biology PhD program



Student evaluations: Nicolas welcomed me as an assistant student in his lab at the University of Toronto when I was an undergraduate student at Universidad de Antioquia, Colombia. Under his supervision, I was in charge of analyzing confocal microscopy movies of the development of the legs of the fruit fly *Drosophila*. It is indeed astonishing to observe the dynamics of cells in tissues during development. He was an encouraging supervisor who was always happy and willing to explain the basic rationales behind the procedures I had to follow in the lab. He is also a patient scientist and also welcomes discussion in a constructive manner. I spent many hours with Nicolas discussing several

different theoretical issues in evolutionary biology, some stemming directly from his on PhD research on evo-devo. This has all been very useful in my development as researcher. I certainly think of Nicolas as an role model when I have to supervise a new undergraduate, as a PhD student, in my lab at Dalhousie University. Two years later after I had left my short 6-month internship at UofT, I became part of the organizing committee for the third meeting of the Colombian Network for Evolutionary Biology (ColEvol). We invited Nicolas as a keynote speaker and he made quite an impact with his talk. Many young scientists were interested in Nicolas' research and discussions around it followed throughout the rest of the symposium. Nicolas has since then also become an active member of ColEvol, therefore playing an important role in the development of the field of evolutionary biology in Colombia.

2) Student: Jiwon Lee

Email: g1jiwon.lee@gmail.com



Project: Phenotypic analysis of various mutations perturbing sex comb development

Achievement: PNAS and JCLS publication; Jiwon is currently at Michigan State University, College of Osteopathic Medicine

Student evaluations: Nicolas was a fantastic teacher and mentor. He does his best to keep the material and learning environment entertaining and interesting. I would recommend him for any student interested in the cell biology field. I start working with Nicolas as a volunteer in Ellen Larsen lab, and then I took the Research Opportunity Program with him. He mentored my project, and helped

me to publish my first paper.

3) Student: Helen Tan**Email:** helen.yi.tan@gmail.com**Project:** Cell extrusion involved in sex comb rotation of *Drosophila melanogaster***Achievement:** Helen is currently at New York Medical College program in Physical Therapy**Student evaluations:** To Whom It May Concern,

My name is Helen Yi Tan, and I am writing to you regarding the application of professorship for Dr. Juan Nicolas Malagon.

Dr. Malagon was my academic mentor during my undergraduate studies at the University of Toronto, where with his guidance, I completed an individual research course for the department of Cell and Systems Biology.

As a mentor, Dr. Malagon was knowledgeable and approachable; he was always available to me when I had questions, and was proactive in making sure that he was accessible even when help was not needed immediately. Dr. Malagon was

also very thorough. He would often go beyond the surface of a question to understand why I was having trouble grasping an idea, and would ensure that the root of the problem was also addressed.

During my professional interactions with Dr. Malagon, he was also incredibly patient, reliable, and dedicated to his work. Dr. Malagon is a person whom would never sacrifice the quality of his work simply to meet a deadline, and I was very fortunate to have been influenced by this great characteristic. In addition, Dr. Malagon always found different ways to engage me to new material, and encouraged me to be creative and passionate about my own work as well.

Dr. Malagon's teachings during my independent research project helped to establish a solid foundation for me in my academic career, and allowed me to later complete my own doctoral project on the interaction of breathing and neck and low back pain.

Based on my experience with Dr. Malagon, I believe he has the academic knowledge and interpersonal traits of a great professor, and would be a valuable addition to your faculty!

Sincerely,

Yi (Helen) Tan, PT, DPT

Helen.yi.tan@gmail.com

Helen is a Doctor of Physical Therapy graduate from New York Medical College, and is currently employed with SPEAR Physical Therapy, an award winning private outpatient orthopedic practice in New York City. Under the guidance of Dr. Malagon, Helen completed an independent research project titled "Analysis of cell extrusion patterns in the first tarsal segment region of male Drosophila melanogaster, in understanding sex comb rotation."

**4) Student: Marina Wang****Email:** marina.wang92@gmail.com**Project:** Cell dynamics involved in the leg development of the *Drosophila melanogaster* female**Achievement:** JULS publication; Marina is currently at University of McMaster Medical School

Student evaluations: Nicolas was very clear on his expectations and all assignments given. I learned very much and enjoyed working with him in the course Research Opportunity Program. He also gave me freedom to develop new ideas in my project and

then support and give me guidance to write a publication of my research project. He is a very good mentor with a humorous approach.

4) Student: Gabilan Sivapatham

Email: gabilan.sivapatham@gmail.com

Project: Cell dynamics involved in the rotation of *Drosophila melanogaster* sex comb artificially selected for a low number of bristles

Achievement: PNAS publication



Student evaluations: I first met Nicolas during my first year of undergraduate studies while engaging with my first research project. If I can highlight one feature that separates Nicolas from others, it would be the way he demonstrates his passion for his research and the promotion of learning in everyone. I remember many conversations in the early stages where Nicolas would help stimulate key conversations in a meaningful way to ensure that the questions were understandable to a first year student but also thoughtful. Engaging with the research process for the first time, I found myself thinking critically and being supported through the research question development process. I have found

Nicolas to be extremely approachable and welcoming of questions and feedback. Nicolas will serve any institution well, both in engaging with academia, but also his interactions with peers and students.

5) Student: Waleed Khan

Email: waleedbangash.khan@mail.utoronto.ca

Project: Evolution of allometric changes in fruit fly forelegs

Achievement: Acta Biol. Col. Paper



Student evaluations: Nicolas was always willing to help and I appreciated him for not just giving me the answers, but helping me find the answer on my own. He was passionate about teaching, displaying an upbeat style and has great chemistry with his students.

6) Student: Yunlong Liang

Email: Yunlong.L@hotmail.com

Project: Epithelial development in *Drosophila melanogaster* (Department of Cell and System Biology, University of Toronto)

Achievement: Master of Public Health candidate (Department of Clinical Epidemiology and Biostatistics, McMaster University)



Student evaluation: I have known Nicholas for a long time and he's been an amazing mentor for me both in academics and in life. I am very lucky to have had him as my research supervisor during my time at the Larsen

lab as he is such an endearing and compassionate individual who genuinely cared about the success and well-being of his students. He was so approachable and would always find the time to help whenever I needed it. He would patiently go through the background, the rationale, and the important details of the

experiment to make sure I fully understood it and it never even once felt rushed. It was also satisfying hearing him explaining things because he always manages to turn complex information into understandable terms and conveys it with such energy and enthusiasm that simply draws you in. On top of that, he often goes above and beyond what he is required to do by taking the initiative to share with us the latest articles, data, and insights relevant to our research to make sure we would do well on our poster presentations and final reports - which we could never have done so well in without his support and encouragement. In fact, several students and I enjoyed cell biology so much because of him that we opted to pursue a cell biology specialization for the rest of our undergraduate studies.

7) Student: Fei, Zhonghui

Email: sue.fei.6@gmail.com

Project: RNAi genetic screening for genes perturbing *Drosophila melanogaster* sex comb development

Achievements: Fei completed her M.Sc. at the University of Toronto and went on to Osgoode Hall Law School at York University to pursue a career in law. She is currently articling at Torys LLP.



Student evaluation: Nicolas was an amazing mentor. He patiently and effectively trained me in everything from basic laboratory techniques (e.g. drosophila maintenance, screening, and dissection) to specialized imaging software to the underlying theoretical knowledge (in genetics, developmental biology and evolutionary biology) that was crucial to my research project. Nicolas valued student input in terms of the direction of the project and encouraged participation and group collaboration. He was very knowledgeable and always did his best to pass on what he knew to his students. Nicolas was enthusiastic, energetic and always knew exactly how to simplify and

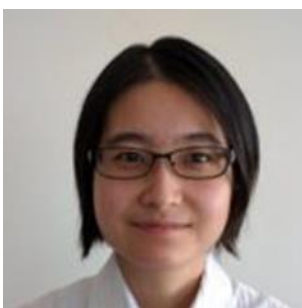
effectively explain complex issues. The knowledge Nicolas imparted on me has stayed with me throughout my graduate school career and was transferred to valuable skills after that.

8) Student: June, Tan

Email: june.tan@utoronto.ca, junet0809@gmail.com

Project: Interchange of cell neighbors involved in sex comb rotation of *Drosophila melanogaster*

Achievements: June is currently pursuing a PhD at the University of Toronto

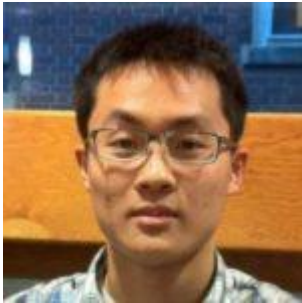


Student evaluation: When I was an undergraduate student working with Nicolas, he provided plenty of mentorship and guidance that has been a great help in my development as a young scientist. It was an enjoyable and enriching research experience working with Nicolas to analyze time-lapse movies of developmental processes. He always encouraged thought-provoking discussion— from discussions about how best to design methods to analyze the data, to discussions about data interpretation and their relevance to previous findings in the literature. Moreover, he fostered and maintained a collaborative environment among students that led to many fruitful discussions and further

insights about the research topic. He was very approachable, which made me feel comfortable with asking him questions and sharing my opinions. He also often freely shared his experiences and knowledge and was a great mentor in helping me apply and prepare for graduate school.

9) Student: Julian, Hung**Email:** Julian.hung@utoronto.ca**Project:** Cell dynamics involved in the rotation of *Drosophila melanogaster* sex comb artificially selected for a high number of bristles**Achievements:** PharmD., MBA Candidate, University of Toronto. Co-author in PNAS publication

To whom it may concern:



I am writing this reference at the request of Dr. Nicolas Malagon who is being considered for an academic promotion to assistant professor at the University of Toronto.

I first met Dr. Malagon through my professor who wanted to take me on as a lab student for the summer. Upon meeting him in person, I quickly realized I would be in for terrific learning experience. At the time, he was my mentor for a research project that analyzed the cell dynamics in genetically modified sex combs of *Drosophila*. Along with the textbook knowledge he was able to teach me, he trained me in basic and specialized lab techniques, including dissections, fruit fly genetic screens and how to use imaging software. Dr. Malagon values student input on how to approach research projects, encourages participation and facilitates group discussions. He is very knowledgeable and I admire the way he is able to pass on his qualities onto his students. Nicolas is also enthusiastic, energetic and has a wonderful way of simplifying complex issues along with explaining things in a way that can be easily remembered.

Overall, Nicolas has all of the qualities that a student looks for in a great professor. Not only is he a strong mentor inside the office, but he has become a lifelong friend and associate. Through my experiences working with Dr. Malagon, I was inspired to pursue the medical sciences as a career path. I highly recommend him for the professor position at the University of Toronto and would be more than happy to have him as my professor someday. If you have any further questions regarding his background or qualification, please do not hesitate to contact me at Julian.hung@utoronto.ca.

Sincerely,

Julian Hung

10) Student: Luna He**Email:** tingtinghe2003@hotmail.com**Project:** Cell dynamics of proximal region of the 1st tarsal segments in *Drosophila melanogaster***Achievement:** Luna is currently at the Loyola University in Chicago Law school**Student evaluation:** To Whom It May Concern,

Nicolas is a great mentor. He trained me in basic and specialized lab techniques, including the use of imaging software. Nicolas values students' input on how they would like the research projects and encouraged participation and group discussions. He is very knowledgeable and I admire how he does his best to pass that onto the students. Nicolas is also enthusiastic, energetic and has a wonderful way of simplifying more complex issues into clearly understandable language and helps students learn by creating more graphical images.

BIOL-2100 - Genetics of Eukaryotes Lab - Nicolas Malagon

Please circle the number at the end of each question which most accurately expresses your response. Key: 1=strongly disagree; 2=disagree; 3=neutral; 4=agree; 5=strongly agree.

I. Course Evaluation:

1. The lab instructor showed a genuine interest in individual students' learning and development.					4.8	
2. The lab instructor made students feel welcome in seeking help/advice in or outside of class.					4.5	
3. The lab instructor's style of presentation held my interest during class.					3.9	
4. The lab instructor's materials were well prepared and carefully explained.					3.5	
5. Laboratory objectives were clearly presented for each meeting.					3.5	
6. The lab instructor explained difficult concepts well and used concrete/relevant examples.					3.4	
7. Students were encouraged to express their own ideas and/or to question the instructor.					4.6	
8. Feedback on laboratory assignments was valuable.					3.3	
9. Methods of evaluating student work were fair and appropriate.					4.0	
10. I found the laboratory work challenging and stimulating.					3.9	
11. I learned and understood the subject materials in this laboratory.					4.2	
Overall the lab instructor was:	very poor	2	good	7	3.8	
	poor	0	excellent	4		
	average	0				
Overall the lab was:	very poor	1	good	7	4.0	
	poor	0	excellent	4		
	average	1				
The workload was:	very easy	0	hard	2	2.9	
	easy	3	very hard	0		
	medium	8				
The pace was:	too slow	0	fast	2	3.2	
	slow	0	too fast	0		
	about right	11				
Hours per week required outside of lab for assignments:	0-2	6	6-8	0	12+	0
	3-5	7	9-11	0		
Your level of interest in the subject prior to this course:	very low	0	medium	2	very high	3
	low	0	high	8		
Your overall grade point average is:	Below 2.5	0	3.0-3.4	1	3.8+	
	2.5-2.9	0	3.5-3.7	3		
Your expected grade in this course is	F	0	C	1	A	10
	D	0	B	2		
Your reason for taking the course:	core curr. req.	3	elective for maj	2		
	req. for major	7	gen. elective	1		
Your year in university:	first	0	third	4	5+	0
	second	7	fourth	2		

BIOL-1310L (Sec 1) - Biology I: Cells & Energy Lab - Nicolas Malagon

Please circle the number at the end of each question which most accurately expresses your response. Key: 1=strongly disagree; 2=disagree; 3=neutral; 4=agree; 5=strongly agree.

I. Course Evaluation:

					<u>Response</u>	<u>Average</u>
1. The lab instructor showed a genuine interest in individual students' learning and development.						4.4
2. The lab instructor made students feel welcome in seeking help/advice in or outside of class.						4.8
3. The lab instructor's style of presentation held my interest during class.						4.0
4. The lab instructor's materials were well prepared and carefully explained.						3.9
5. Laboratory objectives were clearly presented for each meeting.						3.9
6. The lab instructor explained difficult concepts well and used concrete/relevant examples.						4.3
7. Students were encouraged to express their own ideas and/or to question the instructor.						4.9
8. Feedback on laboratory assignments was valuable.						3.8
9. Methods of evaluating student work were fair and appropriate.						4.0
10. I found the laboratory work challenging and stimulating.						4.5
11. I learned and understood the subject materials in this laboratory.						4.1
<hr/>						
Overall the lab instructor was:	very poor	0	good	2		4.3
	poor	0	excellent	4		
	average	2				
Overall the lab was:	very poor	0	good	5		4.4
	poor	0	excellent	3		
	average	0				
The workload was:	very easy	0	hard	0		3.0
	easy	0	very hard	0		
	medium	8				
The pace was:	too slow	0	fast	0		3.0
	slow	0	too fast	0		
	about right	8				
<hr/>						
Hours per week required outside of lab for assignments:	0-2	4	6-8	0	12+	0
	3-5	4	9-11	0		
Your level of interest in the subject prior to this course:	very low	0	medium	2	very high	4
	low	0	high	2		
Your overall grade point average is:	Below 2.5	0	3.0-3.4	1	3.8+	5
	2.5-2.9	0	3.5-3.7	2		
Your expected grade in this course is:	F	0	C	1	A	5
	D	0	B	2		
Your reason for taking the course:	core curr. req.	2	elective for maj	0		
	req. for major	5	gen. elective	1		
Your year in university:	first	6	third	0	5+	0
	second	2	fourth	0		

BIOL-1310L (Sec 1) - Biology I: Cells & Energy Lab - Nicolas Malagon

Please circle the number at the end of each question which most accurately expresses your response. Key: 1=strongly disagree; 2=disagree; 3=neutral; 4=agree; 5=strongly agree.

I. Course Evaluation:	<u>Response</u>
	<u>Average</u>
1. The lab instructor showed a genuine interest in individual students' learning and development.	4.4
2. The lab instructor made students feel welcome in seeking help/advice in or outside of class.	4.8
3. The lab instructor's style of presentation held my interest during class.	4.0
4. The lab instructor's materials were well prepared and carefully explained.	3.9
5. Laboratory objectives were clearly presented for each meeting.	3.9
6. The lab instructor explained difficult concepts well and used concrete/relevant examples.	4.3
7. Students were encouraged to express their own ideas and/or to question the instructor.	4.9
8. Feedback on laboratory assignments was valuable.	3.8
9. Methods of evaluating student work were fair and appropriate.	4.0
10. I found the laboratory work challenging and stimulating.	4.5
11. I learned and understood the subject materials in this laboratory.	4.1

Overall the lab instructor was:	very poor	0	good	2	4.3
	poor	0	excellent	4	
	average	2			
Overall the lab was:	very poor	0	good	5	4.4
	poor	0	excellent	3	
	average	0			
The workload was:	very easy	0	hard	0	3.0
	easy	0	very hard	0	
	medium	8			
The pace was:	too slow	0	fast	0	3.0
	slow	0	too fast	0	
	about right	8			

Hours per week required outside of lab for assignments:	0-2	4	6-8	0	12+	0
	3-5	4	9-11	0		
Your level of interest in the subject prior to this course:	very low	0	medium	2	very high	4
	low	0	high	2		
Your overall grade point average is:	Below 2.5	0	3.0-3.4	1	3.8+	5
	2.5-2.9	0	3.5-3.7	2		
Your expected grade in this course is:	F	0	C	1	A	5
	D	0	B	2		
Your reason for taking the course:	core curr. req.	2	elective for maj	0		
	req. for major	5	gen. elective	1		
Your year in university:	first	6	third	0	5+	0
	second	2	fourth	0		