

***One Health Day
Speaker Series Review***

GW One Health



**The George Washington University
2121 I St. NW,
Washington, DC 20052
Washington, D.C.**

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I. Team Leaders

Mallory Epting:

Mallory is pursuing a Master of Science in Public Health Microbiology and Emerging Infectious Diseases at the Milken Institute School of Public Health at the George Washington University. She is currently a global health intern at the Department of Health and Human Services where she works within the Department of Pandemic and Emerging Threats to promote health diplomacy as it specifically relates to the Zika Virus. As a student interested in health policy, Mallory is interested in One Health because of its emphasis it places on interdisciplinary collaboration and teamwork. She is looking forward to utilizing the One Health approach on Capitol Hill, to solve many of the local, national and global health problems.

Jeffrey Jacob:

Jeffrey is a second year medical student pursuing his medical degree at the George Washington School of Medicine and Health Sciences. Prior to pursuing his medical degree, Jeffrey completed two years of cardiovascular research at the Burnett School of Biomedical Sciences in Orlando, FL, focusing on adrenaline and stress-induced cardiomyopathies. He also spent two years volunteering in the post-cardiac surgery unit of the Orlando Regional Medical Center, in Orlando, FL. This past summer, Jeffrey researched miRNA derived biomarkers for esophageal carcinoma and esophageal adenocarcinoma at the George Washington University School of Medicine and Health Sciences. He is very interested in cardiovascular physiology and would like to pursue a career as a cardiothoracic surgeon. Jeffrey is hopeful that spreading awareness of One Health to the next generation of upcoming physicians and health care providers will encourage a more holistic approach to patient care.

Emma Sullivan:

Emma is pursuing a Masters in Public Health in Environmental Health Science & Policy at the Milken Institute School of Public Health at the George Washington University. This past summer, Emma had a formative practicum experience with the U.S. Environmental Protection Agency (USEPA) Office of Science Policy, and hopes to advocate for the protection of human and environmental health both domestically and globally in her future career. While pursuing her undergraduate degree in biology at the University of California, San Diego, Emma interned at the Global Energy Network Institute, where she collaborated with engineers and biologists to educate the public about global environmental concerns and their solutions. As a dual-citizen of the United States and New Zealand, she is particularly interested in the global reach of the One Health Initiative, and believes that multidisciplinary and international cooperation is the key to solving global health problems.

Laura Venner:

Laura is a Masters Candidate in Public Health Microbiology & Emerging Infectious Diseases at the Milken Institute School of Public Health at the George Washington University. She is interested in emerging zoonotic diseases and the impact they have on human and animal health and the economy. She currently works as a student researcher at the Animal Parasitic Diseases Laboratory at the USDA Agricultural Research Service, researching the fetal immune response to Porcine Reproductive and Respiratory Syndrome virus. Prior to working at the USDA, Laura worked at the George Washington University School of Medicine and Health Sciences determining reporter genes in *Schistosoma mansoni*. She has applied to veterinary school and is in the process of interviewing. She hopes to one day be a public health veterinarian focused on emerging animal diseases that impact the human-animal connection, either by threatening economic development and sustainability or as a potential zoonotic or biosecurity threat. Laura is particularly interested in the One Health Initiative because she believes that the answers to stop the development and spread of zoonotic diseases is a collaborative approach between professionals within all fields, not just medical professionals.

Designated Point of Contact for Check:

The check will be made out to our mentor, Dr. Bernadette Dunham at the Milken Institute School of Public Health at the George Washington University. Scholarship money will be distributed evenly among each of the team leaders (\$1666.67 for each student).

II. Event Summary:

Event Concept:

The main concept of our event was to unite. We recognized a major disconnect and lack of cohesion between various disciplines and career levels with specifically, among students of different colleges within our university, among students of different majors, Masters and Doctoral programs within departments, and among professionals in public and private sector organizations involved in public health and students. It seemed that separately, each cohort of individuals recognized its role in promoting health. However, there was a disconnect between academic subjects and cohorts. What struck all of us about the One Health Initiative was its dedication to facilitating collaboration across multidisciplinary fields as a way of solving global problems. Inspired by this lofty goal, we decided to bring in speakers that span many distinctive fields to discuss how a One Health approach influences and enhances their work. We hoped that by meeting with and hearing from these professionals who are already implementing this One Health approach, we would present a challenge to everyone who attended. This challenge to the students, professors, professionals, and the public was to redefine self-imposed boundaries on their expertise and to begin to think more expansively and creatively about solutions to the many global health problems we face today.

By uniting these seemingly diverse groups of people, we challenged everyone to think outside of the box. Our slogan, ***“United in Health, Together We Progress”*** sums up this idea.

Objectives

- Increase awareness of the One Health Initiative among students and faculty at the George Washington University
- Create a time and space for professionals and students to discuss how the One Health Initiative can be integrated in many academic fields
- Establish connections between students, professors, professionals, and anyone interested in the One Health approach to problem-solving
- Spread the word about One Health events, speakers, and networking opportunities in Washington, D.C.

Description:

We planned a speaker series from October 31st to November 3rd to celebrate and promote global One Health Day. Each speaker was either a research scientist, a professor, or a fellow based out of Washington, D.C., whose unique work incorporated a One Health approach. When selecting speakers for the event, we hoped to find individuals from seemingly disparate academic fields, whose work utilized and highlighted the One Health initiative. We believed that by using this approach, we could

pique the interest of students and professors throughout academic interests and colleges within the university. Further, we chose these speakers because we felt it was important to stress the broad scope of the One Health Initiative here in Washington D.C. The fact that they came from universities, the government, and the private sector highlighted the multidisciplinary aspect of the One Health Initiative.

Each event took place between 12:00 pm and 1:00 pm. Before each lecture, a light lunch was provided for all individuals attending the event. Audience members had the option to come early for lunch and network with other interested students, faculty, and professionals. Speakers presented from 12:00 pm to 1:00 pm, with time for questions from the audience. After each talk, extra food was set out and individuals were welcome to stay and connect with the speaker and other audience members. We hoped to foster an environment where collaboration between professionals, professors, students, and the public could occur naturally, and we were happy to see that happen after each talk. The excitement in the room each day was palpable, as new generations of leaders were inspired to combat the large issues facing our world today with a One Health approach. Extra sandwiches from the events were offered to the homeless.

On Monday, October 31st, Dr. Claire Standley presented. Dr. Standley is an Assistant Research Professor at the Center for Global Health Science and Security in the Department of International Health at Georgetown University. Her research focuses on strengthening health systems with an emphasis on the prevention and control of infectious diseases in both animals and humans. She also does research on public health emergency preparedness and response. In her talk “A One Health Approach to Zoonotic Disease Control & Prevention: Lessons from Guinea and the 2014-2016 Ebola Outbreak,” Dr. Standley discussed how a One Health approach was necessary in containing zoonotic outbreaks. She used the most recent Ebola outbreak in West Africa as an example to highlight specifically how utilizing a One Health approach contained the disease.

On Tuesday, November 1st, we invited Dr. Peter LaPuma to speak. Dr. LaPuma is an Associate Professor in the Department of Environmental and Occupational Health at the Milken Institute School of Public Health at the George Washington University. Dr. LaPuma’s research focuses on carbon emissions of electric and gasoline-powered vehicles, the payback time for installing wind turbines, and the potential for geothermal energy. As part of his work, he studies the feasibility of wind farms and alternative fuel facilities for the federal government. In his talk, “Health Impacts of Climate Change,” Dr. LaPuma discussed what climate change was and its impact on not only environmental health, but human and animal health.

On Wednesday, November 2nd, Dr. Taylor Winkleman joined us and presented on the importance of clear communication in global health issues. Dr. Winkleman is an American Veterinary Medical Association (AVMA) Congressional Science Fellow on Capitol Hill focused on international development, zoonotic disease prevention, biosecurity and One Health. She is also an active member and deputy coordinator for the Next Generation Global Health Security Leaders and a member of the Global Health Security Agenda Steering Committee. In her talk “Like a Bridge over Muddy Water: Communication and Translation in One Health,” Dr. Winkleman discussed how to make connections between subject matters as a means of promoting One Health. She questioned audience members about their specific interests and challenged them to discuss how they would solve their issue of interest. Dr. Winkleman’s talk was extremely interactive and truly facilitated the interdisciplinary conversation that is so central to the One Health movement.

On Thursday, November 3rd, we held a panel on antimicrobial resistance with Dr. David Diemert and Dr. Lance Price, from the George Washington University School of Medicine and Health Sciences and the Milken Institute of Public Health at the George Washington University, respectively. Dr. David Diemert is an Associate Professor in the Department of Microbiology, Immunology, and Tropical Medicine. His research focuses on parasites and neglected tropical diseases such as hookworm and malaria, and as a Director for Clinical Trials at the Sabin Vaccine Institute, he frequently explores ways to combat microbes with unique resistances. Dr. Lance Price is a Professor in the Department of Environmental and Occupational Health, whose research focuses on genomic epidemiology to study the misuse of antibiotics in food animals. Additionally, he is the Director of the Antibiotic Resistance Action Center at the George Washington University. In this role, he frequently communicates with policymakers, journalists, and the public about antibiotic resistant infections in human and animal populations. Dr. Bernadette Dunham, a Visiting Professor at the Milken Institute School of Public Health and the former director for the Center for Veterinary Medicine, U.S. Food and Drug Administration, moderated the panel. Her research focus in One Health was instrumental in creating a dialogue among the speakers.

To ensure all students and faculty who were interested in One Health were able to take part in the speaker series, we live-streamed each talk on our Facebook group, GW One Health (<https://www.facebook.com/groups/GWOneHealth/>). When choosing times for these events, a primary obstacle we faced was finding a time that fit into the busy schedules of students, faculty, and professionals. Live-streaming the events was a creative solution to this problem, and allowed us to keep the events open to all students and faculty members with their varying schedules. We encouraged individuals watching over live-stream to ask questions and to contribute to the conversation. The live-stream gave our events a more global scope, as people digitally participated from various parts

of the globe. Viewers included students at the University of Zimbabwe and the Virginia-Maryland College of Veterinary Medicine as well as professionals in California, Montana and South Carolina. All live-stream videos were saved to our Facebook page, which allowed people could watch the lectures afterwards. Please see Promotions & Advertisements for more information on our Facebook group and live-stream videos.

As we are currently not a formal student club on campus, we needed a way to fundraise in order to pay for lunch each day of the speaker series. We hosted a Halloween themed bake sale in the medical school library on Halloween night. This was an ideal time for our first bake sale as many of the medical students, physician assistant students, and public health students were in the library studying for exams, writing papers, or working on projects. We set up our bake sale adjacent to the entrance of the library and sold themed sweets from 6:00pm to 10:00pm. We also took this opportunity to publicize by distributing small fliers that advertised our bake sale and the rest of our One Health events; the fliers also briefly explained what the One Health Initiative is. This bake sale was the perfect opportunity to advertise the remaining events, particularly to the medical students, who are notoriously the busiest and hardest to reach cohort of students. (Please see section VII vii for our fliers).

Contribution to Advancing One Health

After our events, we saw a significant increase in the number of students who were aware and interested in the One Health Initiative. As the events progressed, we saw more students join our Facebook group and post interesting articles, video, and events focused on the One Health Initiative. Specifically, through the Facebook group, we invite students to attend One Health Academy Meetings. Before our events, there were no student that interested in attending, however after our event more students are signing up!

We also saw a rise in the number of professors who integrated the One Health initiative into their curriculum. Many understood the importance of a collaborative and multidisciplinary approach but did not have a name for it to teach to students. After our event, more professors began to introduce this topic into their curriculums. Specifically, Laura and Mallory were asked to discuss the One Health initiative to other students in their Emerging Zoonotic Diseases and Global Food Productions Class.

III. Promotion & Advertisement

Promotional Plan:

To promote our speaker series, we implemented a three-pronged approach focusing primarily on GWU students, the cohort we felt knew the least about the One Health Initiative and that was within our reach: 1) paper poster and whiteboard promotion 2) email listservs and 3) social media.

1) Paper Poster and Whiteboard Promotions

Several weeks before our event, we created a 'Save the Date' to distribute before we had finalized our speakers (see section VII. ii.). We hoped this 'Save the Date' would not only remind people to put our events into their calendars, but also would inspire them to look into One Health. For each individual lecture, we created a poster with the details of the event, the speaker, and its location (see section VII. iii. - vi.). We also had four large posters One Health Day from the One Health Commission that we placed within the entrance of the medical and public health schools.

We strategically placed the posters in each of the libraries and on several of the bulletin boards throughout the George Washington University campus. While promotion was incredibly important to us, we wanted to make our events as sustainable as possible. Therefore, we aimed to limit the amount of paper used and tried to invest in electronic advertisement when possible. With some guidance from Dr. Peter LaPuma, we managed to keep our paper use minimal.

Since we knew many students did not know about One Health before our events, it was important that our promotional plan to not only inform them about our events but also introduce them to the concept. To that end, we used that element of mystery behind the One Health initiative to our advantage. Throughout classrooms in the many colleges, we wrote on the board **GW One Health** along with the name of our Facebook group, Instagram account, and hashtag (See section III for photos). This approach was critical - being a part of a large university means that we get emails about events hosted by our department, by our college, by all administration offices, and by the university. Such extensive emails can be tedious to thoroughly review and we have noticed that many students, including ourselves, tend to skim to find important information. A new concept, such as One Health, could easily be overlooked if this was our only form of promotion. Consequently, the goal for our whiteboard campaign was to capitalize on the unknown nature of the One Health movement, and to encourage students to take the initiative to find out to what these messages on the whiteboards were referring. In this way, we hoped that students would explore One Health on their own time and would also learn about (and ideally, attend) the events we had planned. Further, if they read about our events in another form of communication (such as an email or flyer), they may be more inclined to pay attention.

2) Email Listservs

There are many listservs for students, faculty, and staff to join at George Washington University and we aimed to use as many of them as we could to invite people to our events. As mentioned above, we were hesitant to solely use the listservs to promote our event, but found that it was the best possible way to reach the entire campus, including online students. We sent out emails through the all-student listserv as well as specific all-college listservs. To ensure staff and faculty understood this was not just a student event, we personally emailed over 200 faculty and staff from various schools within George Washington University.

Further, as many of us work at different organizations in the private and public sector throughout Washington, D.C., we sent out an email summarizing our events and inviting any interested individuals to either attend or join our Facebook group to watch the livestream. The organizations we contacted included the United States Department of Agriculture (USDA), the United States Environmental Protection Agency (US EPA), the American Association for the Advancement of Science (AAAS) and the Department of Health and Human Services (DHHS).

3) Social Media

One of our strongest promotional tools was our social media presence. Several weeks before our events, we created a Facebook group and an Instagram account. Our Instagram account 'onehealthgw' has over 94 followers (<http://www.pictaram.com/user/onehealthgw/4008419587>). Instagram was very helpful at catching people's attention through flashy pictures and witty comments, which detailed our events. By using several of the common GW hashtags, including #GWmed, #WhyIGWSPH, #GWU. We also used some common One Health hashtags which might we intended to build public interest, including #OneHealth, #OneHealthInitiative, and #OneHealthAcademy. In many of our photos, we tagged other GWU Instagram accounts, including @gwphsa (George Washington Public Health Student Association), @gwsms (George Washington School of Medicine and Health Sciences), @gwuniversity (George Washington University), and @gwupublichealth (GWU Public Health). We also created our own hashtag, #OneHealthGeneration, and encouraged students to use it if they were taking pictures at one of our events. This hashtag was both unique and contained the sense of inspiration that we hoped to convey to our peers in regards to the One Health Initiative.

We also created a Facebook page and posted it to the different student pages, and invited students to join. Starting one month before the event, a relevant One Health related article was posted each day to the Facebook group. Each article highlighted research that was being conducted in the One Health field. We also posted invitations to several One Health events and lectures occurring throughout Washington, D.C. Since

our goal was to spread the word about, and educate individuals on, the One Health Initiative, we felt it was in the spirit of One Health collaboration to promote other One Health-related events.

The Facebook group is open to the public. After the event was posted to the One Health Commission's website, we started to see a huge increase in the number of individuals joining our group from across the globe. It was through this we found out that the Virginia-Maryland College of Veterinary Medicine and the University of Zimbabwe livestreamed our events to their students.

Advertising (how many people did your event reach? To what extent did your event inform people who knew nothing about One Health or change the minds of people who had some understanding of it?)

We found our promotional strategy to be very effective in reaching the students and faculty at George Washington University. By using several different approaches and by incorporating unique means of interacting with students and faculty, we effectively informed people about the One Health Initiative and our events, and prevented our messages from getting lost in an inbox or on a bulletin board.

Date	Individuals Attending our Event (Approximate)	Individuals Watching Livestream During the Event	Total Views of Event Recordings as of 12/1/16
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	Students	Professors	Public		
Mon, 10/31	13	3	1	15	81
Tues, 11/1	32	2*	3	7	194
Weds, 11/2	16	3	2	10	84
Thurs, 11/3	64	10*	2	7	231

*Not including professor(s) speaking or participating in the panel.

IV. Postliminary Review

Narrative Summary of Event:

We believe that we were successful in meeting our objectives. Our primary goal was to inform the students and faculty at George Washington University about the One Health Initiative and to facilitate conversations between students and professionals, so that we may inspire a new generation of leaders in the One Health arena. We had great turn outs for our events and generated a lot of buzz throughout the university and on social media about the One Health Initiative.

We encountered some obstacles along the way. First off, as a group of four graduate and medical students, we recognized even before we started to plan the events how difficult it would be to effectively coordinate and execute our ideas with our busy academic and work schedules. To overcome this challenge, we sat down with our calendars and marked down each other's exam and work schedules. In this way, we were well aware of weeks where certain team members were too busy and could not assist in the planning. We also maintained an open stream of communication via text message. We understood that other things would come up and encouraged each other to reach out if one of us was unable to complete a task.

Another obstacle we faced was getting speakers. Many of the original speakers we contacted were out of town at other One Health conferences around the world. In light of these challenges, we recommend that the next group of students who plan One Health Day events at GWU next year choose to host it at a slightly different time. Perhaps the week before or after One Health Day would be most effective. This would also allow those GW students to more efficiently advertise other One Health Day events in Washington DC, without bombarding students with too many events within one week.

To improve for next year, we hope to use better recording equipment to live-stream our events onto Facebook. This year, we used a mounted phone onto a tripod for the live-stream. It was difficult to get a steady picture, particularly on Monday. Throughout the events, we tried different methods and eventually used a stronger tripod which maintained a steadier picture throughout the lecture.

V. Acknowledgements

We would like to thank Dr. Bernadette Dunham for mentoring us on the One Health Initiative. Her advice challenged us to think outside of the box and was crucial to the events' success. Additionally, we found helpful mentors and guides in Ed Washburn and Tonya Nichols of the US EPA, and are very grateful for their support and advice. We would also like to thank Cattelya Wongkongkatap for assisting us in booking room space and making sure we abide by the event planning guidelines set forth by George Washington University.

VI. Distributed Posters

i. Event Logo



ii. Save the Date

UNITED IN HEALTH, TOGETHER WE PROGRESS

GW ONE HEALTH

George Washington University

October 31st – November 3rd

12:00pm-1:00pm

SAVE THE DATES



GW One Health




onehealthgw #OneHealthGeneration

iii. Monday Lecture Poster (Dr. Claire Standley)


**A One Health Approach to Zoonotic Disease
Control & Prevention:**

Lessons from Guinea and the 2014-2016 Ebola Outbreak


Dr. Claire Standley Ph.D., M.Sc.
12:00pm – 1:00pm Milken School of Public Health
Lecture Hall B (Basement)
Monday October 31st



<http://www.mymc.com/>



www.georgetown.edu





A light lunch will be provided

iv. Tuesday Lecture Poster (Dr. Peter LaPuma)

GW One Health presents:

Health Impacts of Climate Change

Dr. Peter LaPuma Ph.D., P.E., C.I.H
Tuesday November 1st | 12 – 1 pm
Milken School of Public Health
Lecture Hall B (Basement)



Light lunch will be provided.

v. Wednesday Lecture Poster (Dr. Taylor Winkleman)

Like a Bridge Over Muddy Water:

Communication & Translation in One Health

Dr. Taylor Winkleman DVM MPH
12:00pm – 1:00pm Milken School of Public Health
Lecture Hall B (Basement)
Wednesday November 2nd






Light lunch will be provided



vi. Thursday Panel Poster

GW One Health presents:

Antimicrobial Resistance and One Health



David Diemert, M.D., M.Sc.
Lance Price, Ph.D., M.Sc.
Moderated by: **Bernadette Dunham, D.V.M., Ph.D.**
Thursday, November 3rd | 12 – 1 pm
Ross Hall 101



vii. Halloween Bake Sale Poster.

REALLY... STUDYING ON HALLOWEEN?



COME GRAB SWEETS IN THE HIMMELFARB LOBBY ON OCTOBER 31 6PM-10PM & SUPPORT GW ONE HEALTH EVENTS

October 31st – November 3rd


REALLY... STUDYING ON HALLOWEEN?



COME GRAB SWEETS IN THE HIMMELFARB LOBBY ON OCTOBER 31 6PM-10PM & SUPPORT GW ONE HEALTH EVENTS

October 31st – November 3rd

WHAT' IS ONE HEALTH?




It is an initiative that stresses the collaboration between human medical science, veterinary science, and environmental and social science disciplines.

Monday 10/31: "One Health Approach to Zoonotic Disease Control & Prevention" Milken, Lecture Hall B


Tuesday 11/1: "Health Impacts and Climate Change" Milken, Lecture Hall B

Wednesday 11/2: "Like a Bridge over Still Water: Communication & Translation in One Health" Milken, Lecture Hall B

Thursday 11/3: "Antibiotic Resistance and One Health" Milken, Lecture Hall B



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Monday 10/31: "One Health Approach to Zoonotic Disease Control & Prevention" Milken, Lecture Hall B

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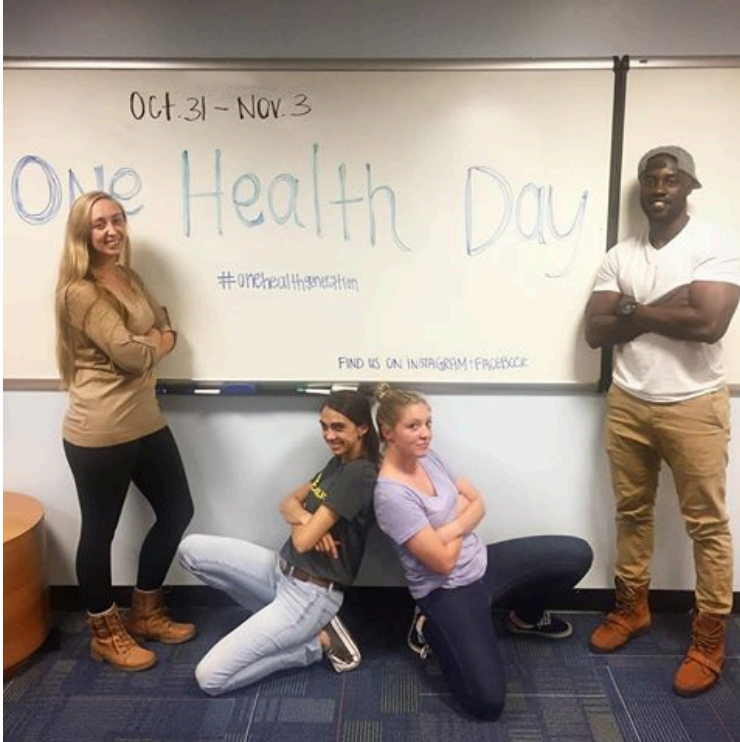
Wednesday 11/2: "Like a Bridge over Still Water: Communication & Translation in One Health" Milken, Lecture Hall B

Thursday 11/3: "Antibiotic Resistance and One Health" Milken, Lecture Hall B



VII. Photos from the Event

- i. The team posing next to one of our One Health whiteboard advertisements (from left to right: Laura Venner, Emma Sullivan, Mallory Epting, Jeffrey Jacob).



- ii. Emma takes to a classroom to advertise our events:



iii. We realized that we needed to be creative in our advertising. The medical library hosted a 'Design Your Own Pumpkin' Initiative as part of Healthy Living at Himmelfarb. We took the opportunity to make a One Health Pumpkin!



iv. Laura got creative while baking for our One Health bake sale! Below shows her Halloween technicolor spider-web cake and her 'Frankencakes'



Display Transcript



This is NOT an official transcript. It does not display second degrees.

The GPA on this transcript is TRUNCATED to two decimal places, whereas the official transcript is ROUNDED. Also, the official Law School transcript is rounded to three decimal places.

All earned credits, both GW and Non-GW, that appear on the transcript do not necessarily satisfy requirements for a degree. Consult with your advisor to determine progress toward a degree.

If you have questions about this transcript, please call (202) 994-4900.

[Institution Credit](#) [Transcript Totals](#) [Courses in Progress](#)

Transcript Data

STUDENT INFORMATION

Student Type: Continuing Student

Curriculum Information

Current Program

College: School of Med & Health Sc

Major: Medicine

DEGREE SOUGHT

Sought-Applied to Graduate: M D

Curriculum Information

Primary Degree

Major: Medicine

INSTITUTION CREDIT -Top-

Term: Fall 2015

College: School of Med & Health Sc

Major: Medicine

Student Type:

Academic Standing: Good Standing

Subject

IDIS	Course	Campus	Level	Title	Grade	Credit Hours	Quality Points	Start and End Dates	R
IDIS	8101	Main Campus	05	Foundations of Medicine	P	8.000	8.000	0.00	
IDIS	8102	Main Campus	05	Immunohematology and Infection	CN	0.000	0.000	0.00	
IDIS	8355	Main Campus	05	OSHA Standard Precautions	P	0.000	0.000	0.00	

Current Term:	Attempt Hours	Passed Hours	Earned Hours	GPA Hours	Quality Points	GPA
Cumulative:	17.000	8.000	8.000	0.000	0.00	0.00

This is NOT an Official Transcript

Term: Spring 2016

College: School of Med & Health Sc

Major: Medicine

Student Type:

Academic Standing: Good Standing

Subject

IDIS	Course	Campus	Level	Title	Grade	Credit Hours	Quality Points	Start and End Dates	R
IDIS	8103	Main Campus	05	Cardiovasc Resp Urm Systems	P	11.000	0.00		
IDIS	8104	Main Campus	05	Gastrointestinal System Liver	P	5.000	0.00		

Current Term:	Attempt Hours	Passed Hours	Earned Hours	GPA Hours	Quality Points	GPA
Cumulative:	16.000	16.000	16.000	0.000	0.00	0.00

VIII. Academic Standing

ii. Jeffrey Jacobs

iii. Laura Venner

THE GEORGE WASHINGTON UNIVERSITY				OFFICE OF THE REGISTRAR	
WASHINGTON, DC					
Gwid : G38999116		Date Issued: 25-OCT-2016			
Date of Birth: 09-JUL					
Record of: Laura C Venner		Page: 1			
Student Level: Graduate		Issued To: Laura Venner			
Admit Term: Fall 2015					
Current College(s): Milken Inst Sch of Public Hlth					
Current Major(s): PubH Micro&EmergingInfDiseases					

SUBJ NO	COURSE TITLE	CRDT	GRD	PTS	
<hr/>					
GEORGE WASHINGTON UNIVERSITY CREDIT:					
Fall 2015					
	Milken Inst Sch of Public Hlth				
	PubH Micro&EmergingInfDiseases				
PUBH 6002	Biostatistical Applic	3.00	B+	9.90	
	For Pubh				
PUBH 6003	Prin &	3.00	B+	9.90	
	Practice/Epidemiology				
PUBH 6004	Env/Occ Hlth-Sustainable	2.00	A	8.00	
	World				
PUBH 6276	Health Microbiology	3.00	B	9.00	
	Ehrs 11.00 GPA-Hrs 11.00 Pts	36.80	GPA	3.35	
	CUM 11.00 GPA-Hrs 11.00 Pts	36.80	GPA	3.35	
	Good Standing				
Spring 2016					
	Milken Inst Sch of Public Hlth				
	PubH Micro&EmergingInfDiseases				
MICR 8210	Infection And Immunity	3.00	A	12.00	
PUBH 6245	Infectiousdisease	2.00	A	8.00	
	Epidemiology				
PUBH 6247	Design Of Health Studies	3.00	A-	11.10	
PUBH 6262	Intro-Geog Information	1.00	A	4.00	
	Systems				
PUBH 6263	Advanced Gis	1.00	A	4.00	
PUBH 6277	Public Health Genomics	2.00	A	8.00	
PUBH 6299	Neglected Tropical	1.00	A	4.00	
	Discntl M&A				
	Ehrs 13.00 GPA-Hrs 13.00 Pts	51.10	GPA	3.93	
	CUM 24.00 GPA-Hrs 24.00 Pts	87.90	GPA	3.66	
	Good Standing				
Summer 2016					
PUBH 6016	Field/Laboratory	2.00	CR	0.00	
	Experience				
PUBH 6099	Nutritional Biochemistry	2.00	A-	7.40	
PUBH 6238	Molecular Epidemiology	1.00	A	4.00	
PUBH 6275	Essential Ph Lab Skills	2.00	B	6.00	
PUBH 6299	Prin & Prac Of Dis	1.00	A	4.00	
	Eradication				
	Ehrs 8.00 GPA-Hrs 6.00 Pts	21.40	GPA	3.57	
	CUM 32.00 GPA-Hrs 30.00 Pts	109.30	GPA	3.64	
***** CONTINUED ON NEXT COLUMN *****					


		Fall 2016			
MICR 8230	Molecular&Cellular	3.00	In Progress		
	Immunology				
PUBH 6249	Statpackages/Datamg	3.00	In Progress		
	t&Dataanlys				
PUBH 6252	Advanced Epidemiology	3.00	In Progress		
	Methods				
PUBH 6280	Meid Final Project	2.00	In Progress		
PUBH 6487	Emerg Zoo Dis & GLbl	1.00	In Progress		
	Food Prod				
	Credits In Progress:	12.00			
***** TRANSCRIPT TOTALS *****					
	Earned Hrs	GPA	Hrs	Points	GPA
TOTAL INSTITUTION		32.00	30.00	109.30	3.64
OVERALL		32.00	30.00	109.30	3.64
***** END OF DOCUMENT *****					

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TRANSCRIPT KEY PRINTED ON REVERSE

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COLORED SIGNATURE AND SEAL

Edmundson
UNIVERSITY REGISTRAR

iii. Emma Sullivan

THE GEORGE WASHINGTON UNIVERSITY
WASHINGTON, DC

GWid : G30211466
Date of Birth: 04-JAN

Date Issued: 16-MAY-2016

Record of: Emma Jane Sullivan

Page: 1

Student Level: Graduate
Admit Term: Fall 2015

Issued To: UNOFFICIAL TRANSCRIPT

Current College(s): Milken Inst Sch of Public Hlth
Current Major(s): Environmental HlthSci & Policy

SUBJ NO	COURSE TITLE	CRDT	GRD	PTS

GEORGE WASHINGTON UNIVERSITY CREDIT:				
Fall 2015				
Milken Inst Sch of Public Hlth				
Environmental HlthSci & Policy				
PUBH 6001	Biologicalconcepts/Publiclth	2.00	B+	6.60
PUBH 6002	Biostatistical Applic	3.00	B	9.00
PUBH 6003	For Pubh	3.00	A-	11.10
PUBH 6004	Prin & Practice/Epidemiology	2.00	A-	7.40
PUBH 6004	Env/Occ Hlth-Sustainable World	2.00	A-	7.40
Ehrs	10.00	GPA-Hrs	10.00	Pts 34.10
CUM	10.00	GPA-Hrs	10.00	Pts 34.10
Good Standing				
Spring 2016				
Milken Inst Sch of Public Hlth				
Environmental HlthSci & Policy				
PUBH 6006	Mgt & Policy Approaches To Ph	3.00	A	12.00
PUBH 6007	Social&Behaviorappr To Ph	2.00	A-	7.40
PUBH 6123	Toxicology: Pubc Health Policy	3.00	A	12.00
PUBH 6131	Applied Data Analysis In Eoh	3.00	B+	9.90
Ehrs	11.00	GPA-Hrs	11.00	Pts 41.30
CUM	21.00	GPA-Hrs	21.00	Pts 75.40
Fall 2016				
PUBH 6121	Envriro & Occuptl Epidemiology	0.00	In Progress	
PUBH 6126	Assessment&Control/Env Hazards	3.00	In Progress	
PUBH 6130	Sustain Energy And Environment	2.00	In Progress	
Credits In Progress: 5.00				
***** TRANSCRIPT TOTALS *****				
Earned Hrs GPA Hrs Points GPA				
TOTAL INSTITUTION	21.00	21.00	75.40	3.59
OVERALL	21.00	21.00	75.40	3.59
##### END OF DOCUMENT #####				

iv. Mallory Epting (attached to email)