Communicating Science through Lightning Talks

NOT ENGINEERING STUDENT SUCCESS CENTER

Yadéeh Sawyer, Ph.D. she.her.ella.





HERE

Overview

The basics
Constructive feedback
Oral Presentations
Additional tips
Reminders



The Basics

Ann Smith

Accounting Student

Phone 774-987-4008 E-mail a.smith@uptowork.com WWW cv.uptowork.com/a.smith in www.linkedin.com/annutw 1905 W Northern Ave Phoenix, AZ 85021

I thrive on challenges and ambitious goals. My greatest strength is the ability to combine my analytical skills with well-developed interpersonal skills. I can build and maintain high-quality business relationships. I am a committed and enthusiastic candidate seeking to become a Finance Management Trainee in an international consulting company.

Education

2015-09 - present International Finance and Accounting / Arizona State University / Master's Studies

2011-09 - 2015-05 Accounting / Arizona State University / Bachelor of Science in Accounting Minor in Asian Languages (Chinese)

Experience

2015-08 - 2015-09 Intern

Accounting Firm Ltd / Phoenix, AZ, USA Analyzed and approved project expenses. Processed expenditure data. Cooperated with management. Provided administrative support.

2015-07 - 2015-08 Trainee

Construction Office / Phoenix, AZ, USA • Analyzed construction projects costs. • Was responsible for contact with B2B contractors. • Created databases.

Additional Activities

2012-10 - 2015-05 Eastern Relations Student Research Club, Arizona State University

Organized specialized events.

Built positive relations with content partners.

Managed external contacts.

Languages

Chinese

Spanish

Key Skills

Financial Analysis Market Analysis Interpersonal Relationship Building Working in an International Environment Special Event Organization Preparation of Offers and Presentations Advanced Command of MS Excel

Ann Smith

Phoenix, AZ, Phoenix Phone 774-987-4009 E-mail a smith@uptowork.com in www.linkedin.com/annutw

Phoenix, 2016-05-17

lenjamin Thomson
EO
homson and Thomson
140 Main Street
. 60605 Chicago
the second s

Dear Mr Thomson

I am writing to enquire if you have any vacancies in your company. I enclose my CV for your information.

As you can see, I have had extensive vacation work experience in office environments, the retail sector and service industries, giving me varied skills and the ability to work with many different types of people. I believe I could fit easily into your team.

conscientious person who works hard and pays attention to detail. I'm flexible, quick to pick up new skills and eager to learn from also have lots of ideas and enthusiasm. I'm keen to work for a company with a great reputation and high profile like Thomson son,

st achievements include:

menting new customer relations strategy that yielded a department client retention rate of 97% reasing regional sales revenue from \$70k to \$100k by developing more efficient meeting and sales process

I have excellent references and would be delighted to discuss any possible vacancy with you at your convenience. In case you do not have any suitable openings at the moment, I would be grateful if you would keep my CV on file for any future possibilities.

Yours sincerely

Ann Smith

Advanced

Basic





Keep it simple









1st - Content 2nd - Time 3rd - Polish



www.angelaterris.com + * × * * × * Makes 1 RESS. * Brings understanding of What WOKKS and what doesn't work. your level. * UPs A Chestes new HABITS JFIDENCE)



Constructive Feedback/Criticism





Be specific. No example. No feedback.



Receiving feedback

Stop your 1st reaction



THINGS



Focus on the benefit

Focus on understanding

HEAR

A sound/noise comes into your ear without you making an effort.



LISTEN

When you pay attention and try to listen to sounds.









Turn Dread into Joy



https://www.sciencemag.org/careers/2020/11/do-you-dread-giving-talks-turn-fear-joy-these-four-keys

You Belong

You are not expected to be perfect

63% 9/% 45% 8% 92% 12% 6/% 59% 86% /4% 2% /9 28% 96% 32% 65% 81% 7% 54% 83% 19% 22% 68% 4 32% 8% 44% 59% 29% 78% 11% 33% 74% 94% 83% 69 63% 97% 45% 8% 92% 12% 67% 59% 86% 74% 2% 79 28% 96% 32% 66% 32% 54% 83% 19% 22% 68% 4 33% 74% 94% 83% 6 32% 8% 44% 69% 63% 97% 45% 8 4/10 44 7 59% 86% 74% 2% 79 28% 96% 32% **3**% 19% 22% 68% 4 5 / U 3% 74% 94% 83% 6 32% 8% 44% 6 63% 97% 45% 8 1 0/ 2 0/ 59% 86% 74% 2% 79 28% 96% 32% 66 V / U U 83% 19% 22% 68% 4 32% 8% 44% 69% 29% 70% 11% 3% 74% 94% 83% 6 63% 97% 45% 8% 92% 12% 67% 2% 86% 74% 2% 79 **28% 96% 32% 66% 81% 7% 54% 83 19% 22% 68% 4** 32% 8% 44% 69% 29% 78% 11% 33% 22% 94% 83% 6 63% 97% 45% 8% 92% 12% 67% 59% **80 2**4% 2% 79 28% 96% 32% 66% 81% 7% 54% 83% 19% **% 68% 4** 32% 8% 44% 69% 29% 78% 11% 33% 74% 94 83% 6 63% 97% 45% 8% 92% 12% 67% 59% 86% 74% 2% 79 28% 96% 32% 66% 81% 7% 54% 83% 19% 22% 68% 37% 8% 77% 60% 70% 78% 11% 33% 77% 07% 82%



The audience is rooting for you





Chlorine Batch Generator

Sponsor: Rodney Herrington Technical Mentor: Tim Cushman Project Manager: Carlos D. Escobedo Vireless Communication: Jorge Morales

Oral Presentations


Charles Darwin and NATURAL SELECTION

- Charles Robert Darwin <u>FRS</u> (12 February 1809 19 April 1882) was an <u>English naturalist</u>.^{III} He established that all <u>species</u> of life have descended over time from <u>common ancestry</u>, and proposed the <u>scientific theory</u> that this <u>branching pattern</u> of <u>evolution</u> resulted from a process that he called <u>natural selection</u>.
- He published his theory with compelling evidence for evolution in his 1859 book <u>On the Origin of Species.^{[1][2]}</u> The <u>scientific</u> <u>community</u> and much of the general public came to accept <u>evolution as a fact</u> in his lifetime.^[3] However, it was not until the emergence of the <u>modern evolutionary synthesis</u> from the 1930s to the 1950s that a broad consensus developed that natural selection was the basic mechanism of evolution.^[4] In modified form, Darwin's scientific discovery is the unifying theory of the <u>life sciences</u>, explaining the <u>diversity of life</u>.^{[5][6]}
- Darwin's early interest in nature led him to neglect his <u>medical education</u> at the <u>University of Edinburgh</u>; instead, he helped to investigate <u>marine invertebrates</u>. Studies at the <u>University of Cambridge</u> encouraged his passion for <u>natural science</u>.¹⁴ His <u>five-year</u> <u>voyage</u> on <u>HMS *Beagle* established him as an eminent <u>geologist</u> whose observations and theories supported <u>Charles</u> <u>Lyell's uniformitarian</u> ideas, and publication of hisjournal of the voyage made him famous as a popular author.¹³
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- Puzzled by the geographical distribution of wildlife and <u>fossils</u> he collected on the voyage, Darwin investigated the <u>transmutation of</u> species and conceived his theory of natural selection in 1838.^[9] Although he discussed his ideas with several naturalists, he needed time for extensive research and his geological work had priority.^[10] He was writing up his theory in 1858 when Alfred Russel Wallace sent him an essay which described the same idea, prompting immediate joint publication of <u>both of their theories</u>.^[4] Darwin's work established evolutionary descent with modification as the dominant scientific explanation of diversification in nature.^[6] In 1871, he examined <u>human</u> evolution and <u>sexual selection</u> in <u>The Descent of Man, and Selection in Teleton in Sex</u>, followed by <u>The Expression of the Emotions in Man and Animals</u>. His research on plants was published in a series of books, and in his final book, he examined <u>evolutioners</u> and their effect on soil.^[12]
- In recognition of Darwin's pre-eminence as a scientist, he was one of only five nineteenth-century non-royal personages from the United Kingdom to be honoured by a state funeral,^[13] and was buried in Westminster Abbey, close to John Herschel and Isaac Newton.^[14]

As a boy in England, he had an interest in nature. His father wanted him to be a doctor, but he did not want to. He dropped out of medical school at the age of 17 to become a naturalist (biologist). When he was 22, he went on a voyage to the Galapagos Islands. They began in Great Britain, and skirted around South America. Darwin closely observed the flora and fauna of S.A. on the way to the islands. On this trip to the Galapagos Islands in 1831, Darwin came up with the idea of natural selection. He saw there were many types of not only finches but tortoises too, each having its own niche, he wondered if each of these were a different species or just variation within the finch and tortoise population. He hypothesized that each type of finch and each type of tortoise, had adaptations to their particular environment (each island has it's own unique environmental conditions) and this eventually lead to the emergence of a new species. These hypotheses along with his observations lead him to write a book describing the process of natural selection. There are 4 main points to the theory of **natural selection**:

• Evolution:

- Is change over time.
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 an interbreeding population of organisms that can produce healthy. fertile offspring. If evolutionary changes are so large, it may not allow for the is interbreeding.

• Structure:

Scientists use structure and fossils to help them determined the degree of relatedness, how
closely related two species are. They do this through the examination of fossils and the
anatomy of species present today, and are able to stipulate as to how long ago they share a
common ancestor.

DO 'VESTIGIAL ORGANS' PROVIDE EVIDENCE FOR EVOLUTION?

S.R. Scadding Department of Zoology University of Guelph Guelph, Ontario, Canada N1G 2W1 Received August 14, 1980; March 9, 1981

ABSTRACT: The existence of functionless 'vestigial organs' was presented by Darwin, and is often cited by current biology textbooks, as part of the evidence for evolution. This paper examines the origin and nature of this argument tracing it to the works of Darwin, Haeckel, and particularly Wiedersheim. An analysis of the difficulties in unambiguously identifying functionless structures and an analysis of the nature of the argument, leads to the conclusion that 'vestigial organs' provide no evidence for evolutionary theory.

In almost all biology textbooks that discuss the "evidence for evolution", vestigial organs are cited as one piece of evidence that supports evolutionary theory (Johnson et al. 1972; Kimball 1974; Moody 1970; Stephens and North 1974; Taylor and Weber 1968; Villee and Dethier 1971). The argument is usually presented in the following manner. Virtually all animals possess organs or structures that have no function. These are homologous to organs or structures that are functional in other related animals. Consequently, these vestigial organs are interpreted as organs that, having lost their usefulness, are in a process of evolutionary decay and can be expected to be eliminated during the course of future evolution. Thus, they provide evidence for the theory of evolution, i.e. that the animal possessing the vestigial structure is a descendant of an animal that possessed the homologous structure in a functional condition. Examples of vestigial structures are given, usually for humans but sometimes with examples from other animals or plants. Vestigial organs identified in the human typically include the vermiform appendix, coccyx, ear muscles, semilunar fold of the eye, and occasionally others. Some textbooks claim that there are over one hundred vestigial structures in the human body, but more than five or six (Stephens and North 1974; Taylor and Weber 1968; 1971). It is the purpose of this paper to review and evaluate this argument

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Analogous Structures

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Homo The tra same. leg of a functic Vestigi unused leg and pythor human males, tailbor LIGHT BUT AKE CLEAKE

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- Some variations are favorable, they lead to the increased success of the population
- Not all young produced in each generation can survive, many will die from starvation, disease or predation
- Individuals that survive and reproduce are those with favorable variations – survival of the fittest



PEppered Moth game

Peppered Moth Game

Peppered Moth Natural Selection Dr. Kettlewell How to Play Play Game

Choose a forest for your experiment



https://askabiologist.asu.edu/peppered-moths-game/play.html

Group	No. of Genera Examined	Average Age of Genera	Net Chromosomal Changes per Myr
Placental mammals			4
Rodents	42	4.6	17.8
Primates	12	4.4	14.2
Rabbits	3	9.0	12.8
Ungulates	14	4.3	11.5
Insectivores and			
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Carnivores	11	11.6	4.5
Bats	17	10.7	3.3
Whales	3	6.3	1.7
Average	_	7.7	9.1
Other vertebrates			
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Snakes	12	12.4	2.6
Lizards	15	23.0	2.4
Turtles and			
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Frogs	12	16.7	1.8
Salamanders	9	21.5	0.6
Teleost fishes	23	18.8	2.6
Average	—	20.6	1.7
Mollusks			
Prosobranch snails	16	64.7	0.3
Other snails	15	49.0	0.4
Bivalves	3	77.0	0.1
Average		64.0	0.3

Adapted from Wilson A.C. et al. 1975. Proc. Natl. Acad. Sci. 72: 5061–5065 (©1975 Wilson et al.). Myr, millions of years.

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Origins to the Diversity of Life

Yadéeh Sawyer, Ph. D.

she/her/ella University of New Mexico



Evolution
Charles Darwin
Natural Selection
Species
Rate of Evolution
Structures

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Change over time







Change over time







No GoalNatural Selection





Charles Darwin

English
Naturalist
The Beagle
Natural Selection



Charles Darwin





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1) Variation



http://readingevolution.com



2) Favorable conditions



http://www.expelledexposed.com/



• 3) Death





• 4) Survival of the fittest











http://insects.eugenes.org



Rate of Evolution

TABLE 13.3 Rates of chromosom	al evolution vary	y substantially between g	groups
---------------------------------------	-------------------	---------------------------	--------

Group	No. of Genera Examined	Average Age of Genera	Net Chromosomal Changes per Myr
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http://evolution-textbook.org



Structures

• Homologous





Structures

Vestigial



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http://www.csus.edu


Structures



Analogous





Evolution
Charles Darwin
Natural Selection
Species
Rate of Evolution
Structures



Questions?



BACKGROUND INFORMATION













BACKGROUND COLORS

BLACK	RED	WHITE	GOLD	ROYAL
NAVY	SILVER	GRAY	TEAL	PURPLE
ORANGE	OLIVE	FORREST	YELLOW	BURGUNDY
BROWN	COYOTE	KHAKI	LIME GREEN	SOFT PINK

BORDER AND TEXT COLORS

BLACK	RED	WHITE	GOLD	ROYAL
NAVY	SILVER	GRAY	TEAL	PURPLE
ORANGE	OLIVE	FORREST	YELLOW	BURGUNDY
BROWN	COYOTE	KHAKI	LIME GREEN	SOFT PINK
CAROLINA	COPPER	HOT PINK	AQUA	LILY PAD





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Visuals and Animatica





University Libraries / Research Guides / Presentation Design / General Principles

Presentation Design

Designing effective presentations & posters

General Principles

Design: Slides

Design: Posters

Design: Data

More Information

Workshop Materials

- Presentation Design Slides
 For more in-depth presentation tips
 and examples, download the slides
 from the Library's presentation
 design workshop
- Presentation Design Worksheet Worksheet designed to help you develop a thoughtful, targeted presentation

Sharing Your Work

If you want your audience and other

General Presentation Principles

The following core principles apply whether you're creating a poster presentation or slides to accompany an oral presentation

- Think and communicate visually: Humans remember images and words better than
 words alone.
- Be consistent: Keep your slides or poster design simple and use a consistent style (fonts, colors)
- Focus: Keep your audience focused on your most important points

Structure

- Hook and Preview
- · Methods, Data and/or Details (Don't dwell overlong here)
- Conclusion and Takeaways

Other Considerations

- Use stories to help people remember your points
- · Use metaphorical thinking to choose impactful and meaningful images
- Avoid "slide-uments" (slides that contain a high level of text detail). To communicate
- detail. make a slideshow as well as a handout/document

https://libguides.unm.edu /presentations

The Real Summary...











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Image citations

- 3. Back to Basics Chalk Board (<u>https://ess.unm.edu/programs/current-students/mentoring-programs/stem-mentoring-program/cec_campusmap.pdf</u>)
- 3. Criticism is a gift (<u>https://thewineingercompany.com/wp-content/uploads/2017/06/constructive-criticism-1080x675.jpg</u>)
- 3. Tip Jar (<u>https://d2j6dbq0eux0bg.cloudfront.net/images/26188169/1393951842.jpg</u>)
- 3. Reminder (<u>https://www.quickanddirtytips.com/sites/default/files/images/11666/types-of-reminders.png</u>)
- 5. Know your audience (<u>https://soonermarketingsolutions.com/wp-content/uploads/2020/10/Social-Media-Marketing-for-Cannabis-Dispensaries-Know-Your-Audience-1024x576.png</u>)
- 6. Avoid jargon (<u>https://www.brainscape.com/academy/content/images/size/w620/2020/09/Scrambled-brain-versus-organized-brain.jpg</u>)
- 7. Keep it simple (<u>https://ik.imagekit.io/smdxc0e2g3/userscontent2-endpoint/images/40c07f79-da60-4cb3-a1a5-4b83dc57b6a0/24663635e577ff1e0ba7b8aac9925a67.jpeg?tr=w-560,rt-auto)</u>
- 8. Peas (<u>https://1.bp.blogspot.com/-z7YHJkLThU8/VvFR9vTuo2I/AAAAAAAAAAAAI8/rVMF7IJa-FA8WJ7d4XIUiBYY1Yfu-40LA/w1200-h630-p-k-no-nu/3-peas-in-a-pod.jpg</u>)
- 9. Plan ahead (<u>https://bomrdauhu.files.wordpress.com/2016/08/planahead.jpg?w=700</u>)
- 10. & 12. Practice/Progress (<u>https://images.squarespace-cdn.com/content/v1/5e355fb2c950981b57643f21/1580903818935-B9JO2ZTBHH5N4IKXC0WF/Lettering_Practice_Nov2019_lowres.jpg</u>)
- 13. Dress appropriately (<u>https://vierlines.files.wordpress.com/2013/08/aca.png</u>)
- 16. Feedback (<u>https://candidculture.com/2017/02/12/giving-feedback-2/</u>)
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