

PSYCHOLOGICAL APPROACHES & PERSPECTIVES

Group presentation
ECAP4009

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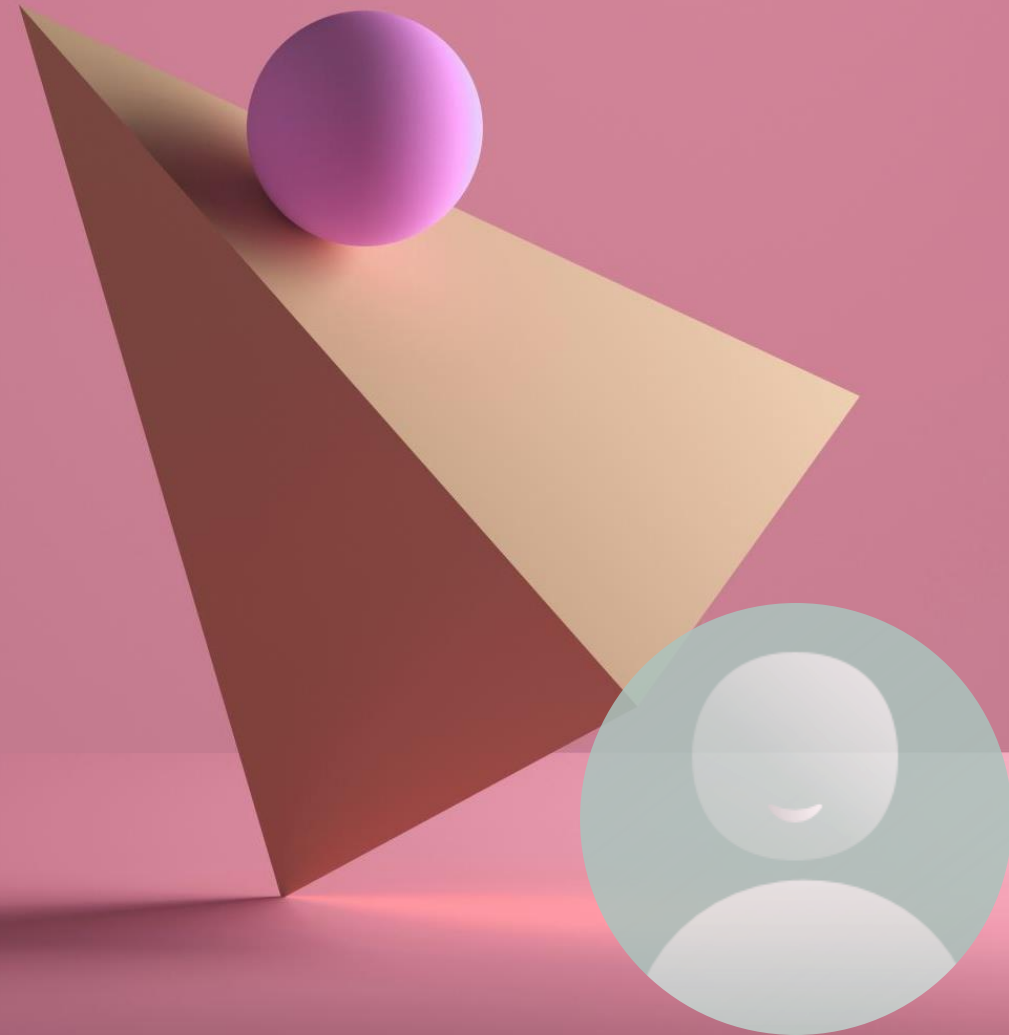
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PRESENTATION AIMS:

- To discover gene-environment interactions, neural plasticity and the critical period
- To discuss how genes influence individual personalities
 - The impact of the environment on individual personalities
- To sample case studies throughout





Gene-Environment Interaction

- Passive interaction
- Reactive interaction
- Active interaction



(Plomin, 2014)



Neural plasticity

- Past assumptions
- New research to evidence neurogenesis
- What are synaptic connections and how can we develop them?

(Costandi, 2016)
(Cramer *et al*, 2011)





The Critical Period

- When is the period?
- Why is it critical?
- How will it affect someone?

(Ohwovoriolè, 2023)

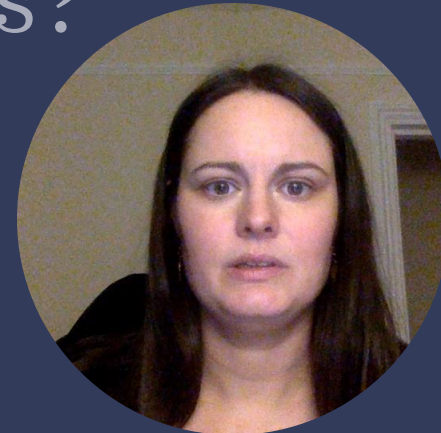


PSYCHOPATHOLOGY

- What is psychopathology?
- How does it affect individuals?
- Statistics?



(E.P 3rd ed)

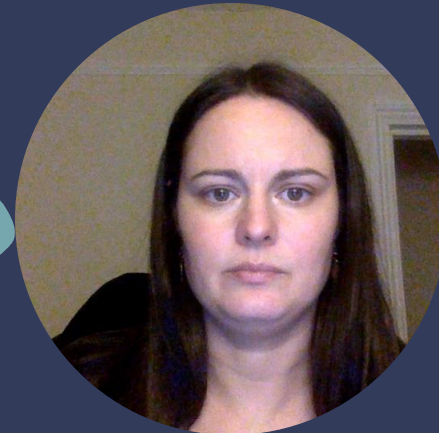




PREDISPOSITIONS AND INDIVIDUAL CHARACTERISTICS

- WHAT IS A GENETICAL PREDISPOSITION?
- HOW CAN IT AFFECT AN INDIVIDUAL?

Niamela(2023)
(E.P. 3rd ed)



Twin study from a genetic perspective

- Genetics of Twins
- Difference between identical and non-identical

Baily and Pillard(1991)



Biological approach

- Biological approach definition
- Nature aspect of nature vs nurture
- How our genetic make-up forms prenatal and dna

(E.P.3rd ed)

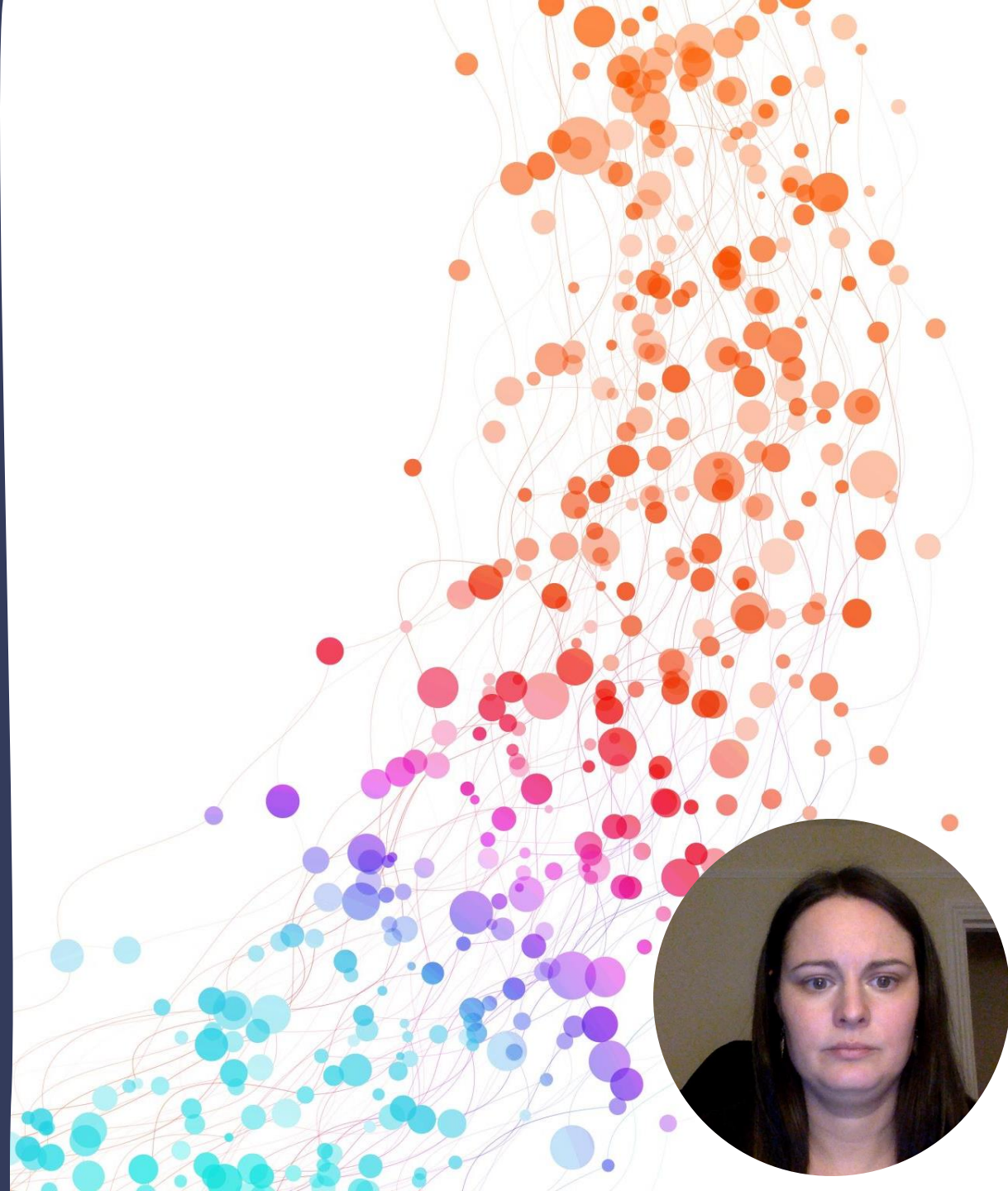
Amy W.Anzilotti, MD <https://kidshealth.org>



Genie case study from a genetic perspective

- Who was Genie
- How Genie's genes influenced her personality

(E.P 3rd ed)

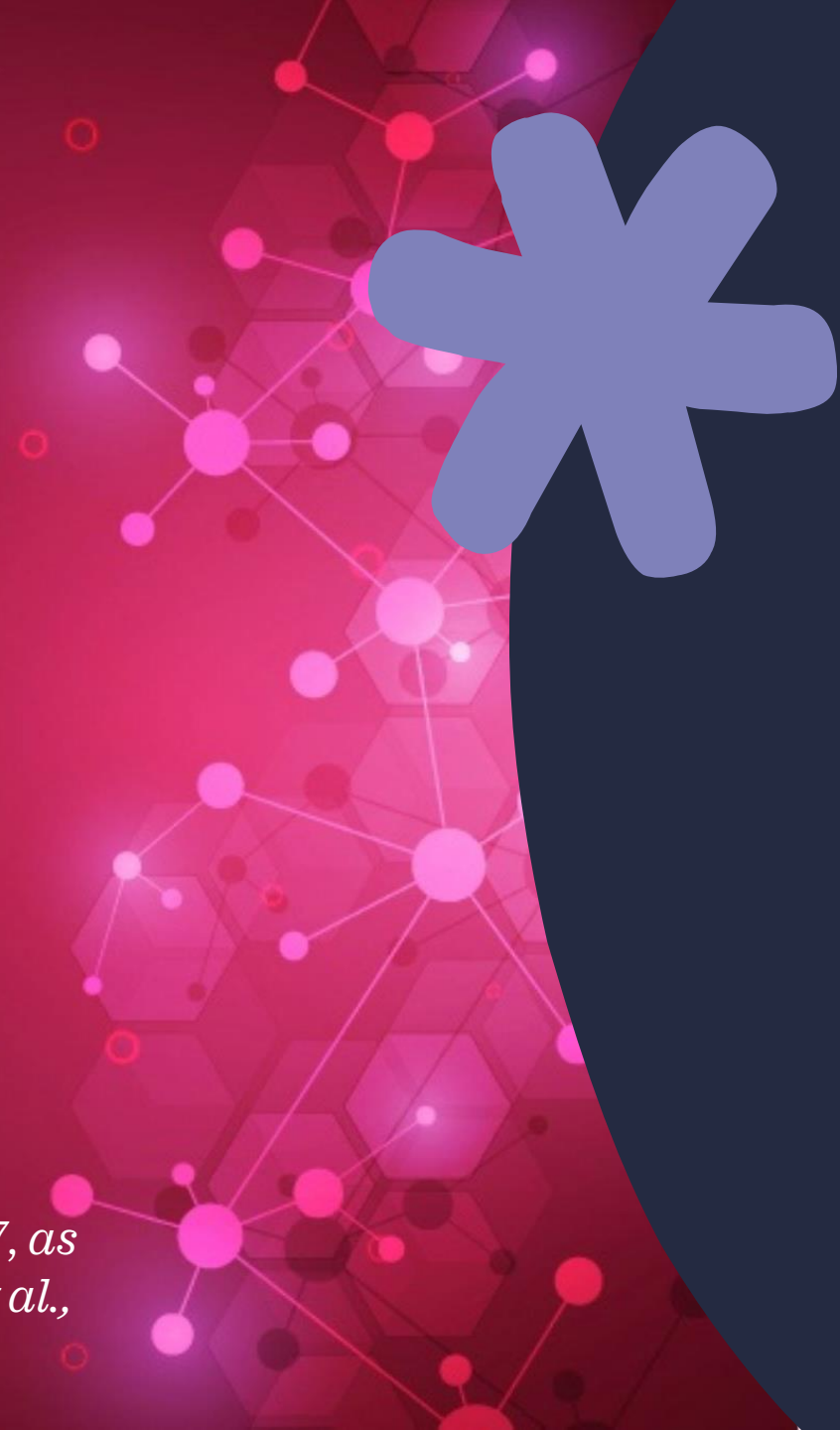


A Nurturing Environment

- External & Internal Influences
- Shared & Non-Shared Environments

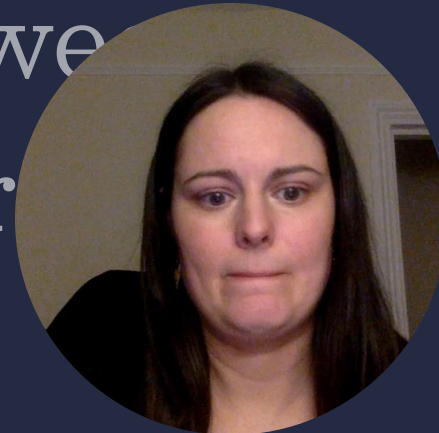


(Gross, 2005)



Epigenetics

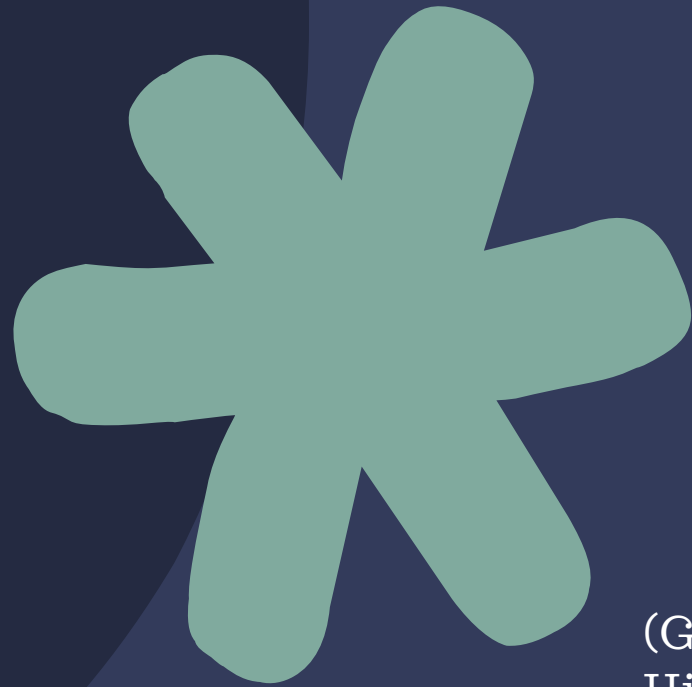
- What are epigenetics?
- The link between 'Nature & Nur



(Feinberg, 2007, *as cited in Higgs et al., 2023*)

Twin studies: Schizophrenia

- Statistics
- Environmental triggers of genetic predispositions



(Gross, 2005;
Higgs et al., 2023).

Adoption & Schizophrenia

- Adoption studies
& the separation
of genetic and
environmental
factors

(Tienari, 1991,
as cited in Gross,
2005).



Genie & The Deprivation Effects

- How did Genie's
environment
affect her

Conclusion

- Predisposition considers genes and environment
- Exposing psychological perspectives



Reference list:

Armchair Investigator. (2023, April 6). *The True Story of Genie Wiley: The Feral Child Kept In Isolation For 13 Years*.

<https://youtu.be/Y2v7tSlgKW4?si=GSmpjdGaKfyry4qI>

Costandi, M. (2016). *Neuroplasticity*, p:1-145, Massachusetts institute of technology, Cambridge Press, ISBN: 9780262529334

Cramer, S, C *et al.* (2011). *Harnessing neuroplasticity for clinical applications*, p:1591-1609, VOL:134, IS:6, Oxford university press,

<https://doi.org/10.1093/brain/awr039>

Gross, R. (2005). *The science of mind and behaviour* (5th ed.). Hodder Arnold.

Higgs, S., Cooper, A., & Lee, J. (2023). *Biological Psychology* (3rd ed.). Sage.

Nelson, C. A., Zeanah, C. H., & Fox, N. A. (2019). How Early Experience Shapes Human Development: The Case of Psychosocial Deprivation. *Neural Plasticity*,

2019, 1–12. <https://doi.org/10.1155/2019/1676285>

Ohwovoriole, T. (2023). *Critical period in brain development: Definition & Importance*, Sourced on:12/12/23, Retrieved from:

<https://www.verywellmind.com/critical-period-in-brain-development-definition-importance-7556041>

Plomin, R. (2014). *Genotype-Environment Correlation in the era of DNA*, Sourced on:08/12/23, Retrieved from:

<https://link.springer.com/article/10.1007/s10519-014-9673-7>

Banyard, P,et al. (eds) (2019) Essential Psychology 3rd edition

Niamela(2023) Volume 116, 2023, Pages 113.181 Advances in Clinical Chemistry Retrieved from:

www.sciencedirect.com/science/article/abs/pii/S0065242323000471

Bailey, J.M & Pillard, R.C. (1991) A genetic study of male sexual orientation Archives of general Psychiatry, 48 1089-1095