

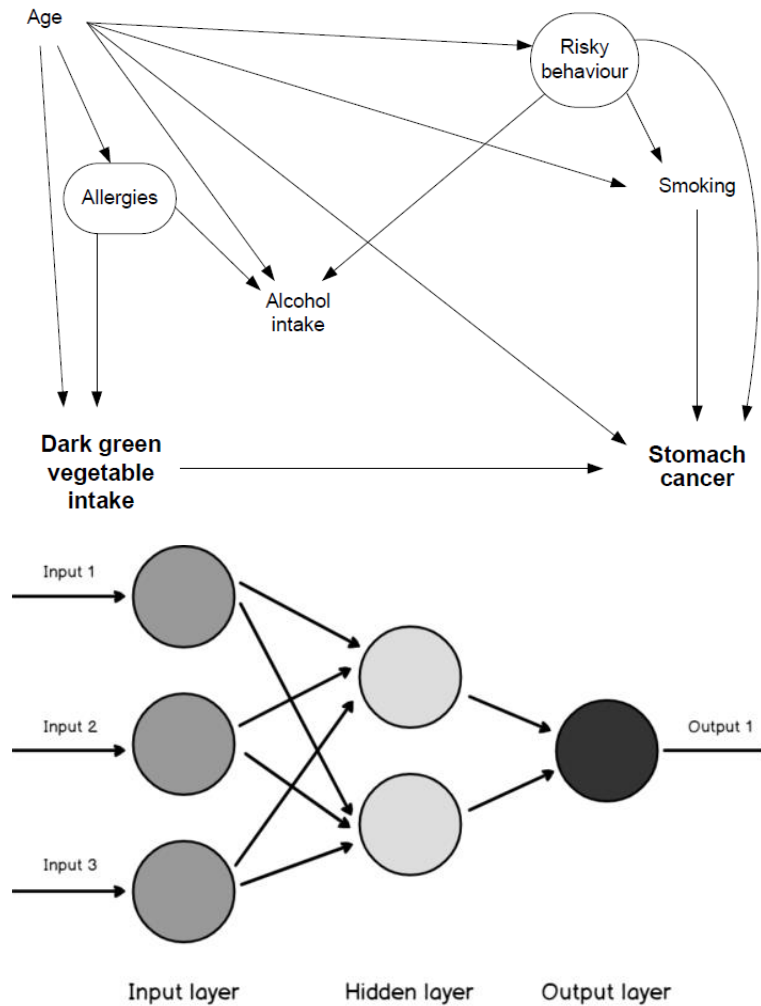
A decorative graphic consisting of thin, grey, stylized circuit lines with small circles at the ends, extending horizontally from the left and right sides of the central black box.

# A NEURAL NETWORK APPROACH TO PSYCHIATRIC COMORBIDITY

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<https://wangcc.me/DAG-CSS/img/dagitty-modelpaper.png>



## METHODS

- National Comorbidity Survey
- Neural Networks
  - Long Short-Term Memory
- Diffusion Network Inference

<https://s33046.pcdn.co/wp-content/uploads/2020/04/three-layered-architecute-in-artificial-neural-net-624x378.png>

# RESULTS

- Neural Network
  - 90% Accuracy
- Plans
- Network to Identify Symptom Interaction

TBD_OND	DSM-IV Nicotine Dependence Onset
PTS_OND	DSM-IV Posttraumatic Stress Disorder Onset
BULH_OND	DSM-IV Bulimia w/ hierarchy Onset
ANO_OND	DSM-IV Anorexia Onset
BINGEH_OND	DSM-IV Binge Eating Disorder w/ hierarchy Onset
BINGEANY_OND	DSM-IV Binge Any Onset
BUL_OND	DSM-IV Bulimia Onset
D47	Age at first year with episodes most days
D59A	Age first time had a year of episodes most days
D72A	Age first time talked to professional about sa...
IR20B	About how old first time had an episode of thi...
SP3	How old first time feared some type of animal
SP3C	How old first time avoided some type of animal
SP5	How old first time feared storms or still water
SP5C	How old first time avoided storms or still water
SP7	How old first time feared going to doctor
SP7C	How old first time avoided going to doctor

# HOW DID ENGAGING IN THIS RESEARCH ENHANCE YOUR EDUCATION AND EXPERIENCE?

- Prepared For Future
- Real World Application
- Use Degree for Something I'm Passionate About



University of Colorado  
Anschutz Medical Campus

<https://centraloregonradiology.com/wp-content/uploads/2017/09/University-Colorado-Logo.jpg>