### ENVIRONMENTAL-RISK (E-RISK) LONGITUDINAL TWIN STUDY CONCEPT PAPER FORM

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### Objective of the study and its significance:

Loneliness has been identified as a key risk factor for a range of mental and physical health problems, with the productivity losses and the healthcare burden linked with loneliness having the potential for significant economic and societal costs (Mihalopoulos et al. 2020). Loneliness has also been linked to poor performance in education and employment (Lim et al. 2019), with lonely individuals more likely to be unemployed (Morrish & Medina-Lara 2021), less confident in the workplace and less optimistic about their career prospects (Matthews et al. 2018). As such, associations between loneliness and poor occupational outcomes may be an additional way in which loneliness exerts an economic burden.

In particular, findings from a recent study suggested that loneliness could be a force for downward social mobility (Matthews et al. 2018). This study indicated that while they were from similar socioeconomic backgrounds, lonelier young adults were more likely to be out of work and education (NEET) by age 18 than their non-lonely peers. This is of particular concern, as NEET status is associated with mental health problems (Goldman-Mellor et al. 2018), and individuals who experienced a 6-month period of NEET are more likely to experience persistent unemployment later in adulthood (Samoilenko & Carter 2015).

The mechanisms underlying the association between loneliness and poor employment outcomes are unclear, with a range of individual and situational factors potentially explaining this downward movement. Children who are lonely during their school years may experience social and academic difficulties that result in them leaving school with lower qualifications (Matthews et al. 2022), disadvantaging them in the job market. Mental health problems linked with loneliness may also drive this association. Further, as most existing research on the topic has utilised cross-sectional data (Morrish & Medina-Lara 2021), the direction of this association is not well understood. While academic and mental health difficulties associated with loneliness may impede lonely individuals' employment prospects, being unemployed may lead to isolation and feeling rejected by society. Greater clarity on this association using longitudinal data will facilitate the identification of young people at-risk of poor work outcomes and inform intervention strategies.

The majority of research on the association between loneliness and occupational functioning has focused on unemployment (Morrish & Medina-Lara 2021) or NEET status (Matthews et al. 2018). However, an individual's employability and social position are multifaceted and cannot be captured using employment status alone. Employability is the capacity of an individual to gain meaningful and sustainable employment, and depends on the knowledge, skills and attitudes they bring to the job market (Hillage & Pollard 1998). In particular, an individual's employability is composed of factors including their technical skills, 'soft' skills, qualifications, work experience and job seeking behaviour (McQuaid & Lindsey 2005).

The socioeconomic position of emerging adults is also not well captured using employment status (Goodman et al. 2003). During young adulthood, individuals transition from childhood social status, which is primarily determined by their family's status, and adult social status, which is determined by their own occupation, education and income. As such, employment is not a sufficient indicator of young adults' status, with perceived social status an alternative measure appropriate for this developmental stage (Goodman et al. 2003). Research using detailed measures capturing multiple dimensions of employability and social status is needed to understand the link between loneliness and poor occupational outcomes.

An issue when asking individuals about their perceived employability and social status, is that loneliness could be a source of reporting bias. Loneliness is associated with bias towards threats (Spithoven et al. 2017), which could negatively bias individuals' perceptions of their skills and social status, as well as their optimism about their career prospects. This could become a self-fulfilling prophecy, in which lonely individuals' are less inclined to seek desirable jobs or promotions. Sibling and twin designs offer a method for testing whether the 'effects' of loneliness are accounted for by negatively skewed perceptions. For instance, if an adolescent who has experienced loneliness perceives their prospects to be poorer than a non-lonely sibling who shares the same level of education, employment status and family SES, this would suggest that loneliness is associated with negatively biased perceptions, highlighting an important target for interventions.

The present study aims to address the following research questions:

- Are lonely children less employable as young adults? Associations between early adolescent loneliness and both NEET status and an index of employability at age 18 will be examined.
- Do lonely children feel more negatively about their social status as young adults? Associations between early adolescent loneliness and subjective social status at age 18 will be examined.
- Do lonely individuals have more negative perceptions of their social status compared to nonlonely individuals with comparable socioeconomic circumstances?
  Sibling control methods using cohabiting twins will be used to further control for household socioeconomic status. Twin discordance in qualification levels and current employment status will also be controlled for.

### Statistical analyses:

- 1. An exploratory factor analysis of educational attainment, job preparedness, work experience, job search behaviour, attitudes about work and career optimism at age 18 will be conducted to examine the relationship between the variables related to employability. An index of employability at age 18 will be derived using these variables.
- 2. Linear, logistic, and Poisson models will be used to regress employment status, an index of employability, and perceived social status at age 18 on loneliness at age 12. Age 12 personality, mental health and functioning will be entered into the model as a second step, to test whether any effects detected are accounted for by childhood confounders. Age 18 loneliness, mental health and functioning will be entered as a third step to test whether any associations are explained by covariates that may impact an individual's ability to get a job.
- 3. Fixed-effects models will be used to regress within-twin pair differences in the age-18 outcomes on within-pair differences in loneliness. This analysis will be limited to twins living in the same home, to hold the SES of the family household constant. Twin differences in qualifications and employment status will also be controlled for.

### Variables Needed at Which Ages (names and labels):

#### Demographic variables

FAMILYID ID	Family
ATWINID ID	Twin 1
BTWINID ID	Twin 2

ĺ	SAMPSEX	Sex of twins
	RORDERP5	Random order variable
	ZYGOSITY	Zygosity
	SETHNIC	Ethnicity of twins
	SESWQ35	SES
	SESDISM5	Disadvantage
	<u>Age 12</u>	
	Social status	Otatus within family. Elden
	STA01EC12 STA01YC12	Status within family - Elder
	STA011C12 STA02EC12	Status within family - Younger Status within peers - Elder
	STA02EC12 STA02YC12	Status within peers - Younger
	STA02TC12 STA03EC12	Status within school - Elder
	STA03YC12	Status within school - Younger
	STA04EC12	Status within country - Elder
	STA04YC12	Status within country - Younger
		, ,
	Loneliness	
	LONELYE12	Loneliness age 12 - Elder
	LONELYY12	Loneliness age 12 - Younger
		nd functioning covariates
	CDIE12	Depression Scale - CDI - Elder
	CDIY12	Depression Scale - CDI - Younger
	MASCE12	Anxiety Scale - MASC - Elder
	MASCY12 DEPRSE12	Anxiety Scale - MASC - Elder Depression scale [from CBCL] - P12 - Elder
	DEPRSY12	Depression scale [from CBCL] - P12 - Elder Depression scale [from CBCL] - P12 – Younger
	PE70AM12	Uses drugs for non-medical purposes
	PE70BM12	Drinks alcohol w/o parents approval
	PE70CM12	Smokes tobacco'
	BFINE12	Neuroticism Subscale (BFI) - Elder Twin
	BFINY12	Neuroticism Subscale (BFI) - Younger Twin
	Age 18	
		mployment variables
	NEETE18	NEET: Not in education, employment or training - P18 - Elder NEET: Not in education, employment or training - P18 – Younger
	NEETY18 DEM2E18	Currently studying - elder
	DEM2Y18	Currently studying – younger
	DEM4E18	Reason left education – elder
	DEM4Y18	Reason left education – younger
		Highest educational achievement (based on QCF) - P18 - Elder
	EDUCACHVY18	Highest educational achievement (based on QCF) - P18 – Younger
	DEM5E18	Currently working - elder
	DEM5Y18	Currently working - younger
	Employees (1)	
		story variables - including raw reasons for leaving job
	DEM9E18 DEM9E18	Ever paid for work – elder Ever paid for work - younger
	DEM10E18	Ever lost job - elder
	DEM10218	Ever lost job - younger
	DEM10aE18	Ever lost job (sacked) - elder
	DEM10aY18	Ever lost job (sacked) - younger
	DEM10bE18	Ever lost job (redundant) - elder
	DEM10bY18	Ever lost job (redundant) - younger
	DEM10cE18	Ever lost job (closed) - elder
	DEM10cY18	Ever lost job (closed) - younger
	DEM10dE18	Ever lost job (pay) - elder
	DEM10dY18	Ever lost job (pay) - younger
	DEM10eE18 DEM10eY18	Ever lost job (disliked job) - elder Ever lost job (disliked job) - younger
	DEM10ev18 DEM10fE18	Ever lost job (disliked job) - younger Ever lost job (progression) - elder
	DEM10P18	Ever lost job (progression) - younger
	DEM10gE18	Ever lost job (boss/co-workers) - elder

DEM   Ever lost job (prison) - elder     DEM   Ever lost job (prison) - elder     DEM   Ever lost job (illness) - elder     DEM   Ever lost job (illness) - younger     DEM   Ever lost job (illness) - younger     DEM   Ever lost job (inlenss) - younger     DEM   Ever lost job (ransport) - elder     DEM   Ever lost job (carer) - elder     DEM   Ever lost job (carer) - younger     DEM   Ever lost job (better job) - elder     DEM   Ever lost job (better job) - younger     DEM   Des search behaviour - elder     DEM   Job search behaviour (classifieds) - younger     DEM   Job search behaviour (ilsting) - younger		
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		riun chances of yearing job (alansport) - eluer

DEM12IY18	Hurt chances of getting job (transport) - younger
DEM12mE18	Hurt chances of getting job (childcare) - elder
DEM12mY18	Hurt chances of getting job (childcare) - younger
DEM12nE18	Hurt chances of getting job (criminal record) - elder
DEM12nY18	Hurt chances of getting job (criminal record) - younger
DEM12oE18	Hurt chances of getting job (mental health) - elder
DEM120218	
DEIVITZOTTO	Hurt chances of getting job (mental health) - younger
	t work – including raw items for factor analysis
DEM13E18	Work attitudes (lottery) - elder
DEM13Y18	Work attitudes (lottery) - younger
DEM14E18	Work attitudes (important) - elder
DEM14Y18	Work attitudes (important) - younger
DEM15E18	Work attitudes (bored) - elder
DEM15Y18	Work attitudes (bored) - younger
DEM16E18	Work attitudes (self-respect) - elder
DEM16Y18	Work attitudes (self-respect) - younger
DEM17E18	Work attitudes (worst) - elder
DEM17Y18	Work attitudes (worst) - younger
DEM18E18	Work attitudes (money) - elder
DEM18Y18	Work attitudes (money) - younger
DEM19E18	Work attitudes (prefer to work) - elder
DEM19218	Work attitudes (prefer to work) - younger
DEIMITISTIC	Work attitudes (prefer to work) - younger
lob proporedn	ess and optimism – including raw items for factor analysis
JPREPSE18	Job preparedness (skills) scale - P18 - Elder
JPREPSY18	Job preparedness (skills) scale - P18 - Younger
JMP1E18	Job preparedness (skills – word processing) scale - elder
JMP1Y18	Job preparedness (skills - word processing) scale - younger
JMP2E18	Job preparedness (skills - programming) scale - elder
JMP2Y18	Job preparedness (skills - programming) scale - younger
JMP3E18	Job preparedness (skills – second language) scale - elder
JMP3Y18	Job preparedness (skills - second language) scale - younger
JMP4E18	Job preparedness (skills - talent) scale - elder
JMP4Y18	Job preparedness (skills - talent) scale - younger
JMP5E18	Job preparedness (skills - sales) scale - elder
JMP5Y18	Job preparedness (skills - sales) scale - younger
JMP6E18	Job preparedness (skills – customer service) scale - elder
JMP6Y18	Job preparedness (skills - customer service) scale - younger
JMP7E18	Job preparedness (skills - writing) scale - elder
JMP7Y18	Job preparedness (skills - writing) scale - younger
JMP8E18	Job preparedness (skills - cooking) scale - elder
JMP8Y18	Job preparedness (skills - cooking) scale - younger
JMP9E18	Job preparedness (skills - trade) scale - elder
JMP9Y18	Job preparedness (skills - trade) scale - younger
JMP10E18	Job preparedness (skills - business) scale - elder
JMP10Y18	Job preparedness (skills - business) scale - younger
JMP11E18	Job preparedness (skills - other) scale - elder
JMP11Y18	Job preparedness (skills - other) scale - younger
JPREPAE18	Job preparedness (attributes) scale - P18 - Elder
JPREPAY18	Job preparedness (attributes) scale - P18 - Younger
JMP12E18	Job preparedness (attributes) scale - 1 10 - 1 ounger
JMP12Y18	Job preparedness (attributes - problem solving) scale - elder
JMP12110 JMP13E18	Job preparedness (attributes – problem solving) scale - younger
JMP13Y18	Job preparedness (attributes - critical thinking) scale - younger
JMP14E18	Job preparedness (attributes - leader) scale - elder
JMP14Y18	Job preparedness (attributes - leader) scale - younger
JMP15E18	Job preparedness (attributes - calm) scale - elder
JMP15Y18	Job preparedness (attributes - calm) scale - younger
JMP16E18	Job preparedness (attributes - explain) scale - elder
JMP16Y18	Job preparedness (attributes - explain) scale - younger
JMP17E18	Job preparedness (attributes - tech) scale - elder
JMP17Y18	Job preparedness (attributes - tech) scale - younger
JMP18E18	Job preparedness (attributes - communication) scale - elder
JMP18Y18	Job preparedness (attributes - communication) scale - younger
JMP19E18	Job preparedness (attributes - others) scale - elder

JMP19Y18	Job preparedness (attributes - others) scale - younger
JMP20E18	Job preparedness (attributes - time) scale - elder
JMP20Y18	Job preparedness (attributes - time) scale - younger
JMP21E18	Job preparedness (attributes - improving) scale - elder
JMP21Y18	Job preparedness (attributes - improving) scale - younger
JMP22E18	Job preparedness (attributes – get along) scale - elder
JMP22Y18	Job preparedness (attributes – get along) scale - younger
JMP23E18	Job preparedness (attributes - adapt) scale - elder
JMP23Y18	Job preparedness (attributes - adapt) scale - younger
JMP24E18	Job preparedness (attributes - tasks) scale - elder
JMP24Y18	Job preparedness (attributes - task) scale - younger
JMP25E18	Job preparedness (attributes - team) scale - elder
JMP25Y18	Job preparedness (attributes - team) scale - younger
JMP26E18	Job preparedness (attributes – reading people) scale - elder
JMP26Y18	Job preparedness (attributes – reading people) scale - younger
JMP27E18	Job preparedness (attributes – on time) scale - elder
JMP27Y18	Job preparedness (attributes – on time) scale - younger
JMP28E18	Job preparedness (attributes - creative) scale - elder
JMP28Y18	Job preparedness (attributes – creative) scale - younger
JMP29E18	Job preparedness (attributes - learner) scale - elder
JMP29Y18	Job preparedness (attributes - learner) scale - younger
JMP30E18	Job preparedness (attributes - likeable) scale - elder
JMP30Y18	Job preparedness (attributes - likeable) scale - younger
JMP31E18	Job preparedness (attributes - advice) scale - elder
JMP31Y18	Job preparedness (attributes - advice) scale - younger
OPTIME18	Optimism scale - P18 - Elder
OPTIMY18	Optimism scale - P18 - Younger
OPT1E18	Optimism scale (education) - elder
OPT1Y18	Optimism scale (education) - younger
OPT2E18	Optimism scale (university) - elder
OPT2Y18	Optimism scale (university) - younger
OPT3E18	Optimism scale (opportunity) - elder
OPT3Y18	Optimism scale (opportunity) - younger
OPT4E18	Optimism scale (job market) - elder
OPT4Y18	Optimism scale (job market) - younger
OPT5E18	Optimism scale (move away) - elder
OPT5Y18	
	Optimism scale (move away) - younger
OPT6E18	Optimism scale (money) - elder
OPT6Y18	Optimism scale (money) - younger
OPT7E18	Optimism scale (family) - elder
OPT7Y18	Optimism scale (family) - younger
OPT8E18	Optimism scale (background) - elder
OPT8Y18	Optimism scale (background) - younger
OPT9E18	Optimism scale (work hard) - elder
OPT9Y18	Optimism scale (work hard) - younger
OPT10E18	Optimism scale (older) - elder
OPT10218	
OPTIOTIO	Optimism scale (older) - younger
Subjective socia	
SIFAMILYE18	Status within family task - elder
SIFAMILYY18	Status within family task - younger
SIPEERSE18	Status within peers task - elder
SIPEERSY18	Status within peers task - younger
SIWORKE18	Status within work task - elder
SIWORKY18	Status within work task - younger
	Subjective social status ladder task - elder
	Subjective social status ladder task - younger
Loneliness	
LONELYE18	Loneliness scale - P18 - Elder
LONELYY18	Loneliness scale - P18 - Younger
Mental health ar	nd functioning covariates
MDESXE18	Depression symptoms scale - P18 - Elder
MDESXY18	Depression symptoms scale - P18 - Younger
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6

GADSXE18	GAD symptoms scale - P18 - Elder
GADSXY18	GAD symptoms scale - P18 – Younger
BFINE18	Neuroticism subscale (BFI) – Interviewer – P18 - Elder
BFINY18	Neuroticism subscale (BFI) – Interviewer – P18 - Younger
PARENTE18R	Early pregnancy (parent or pregnant at 18) - Elder
PARENTY18R	Early pregnancy (parent or pregnant at 18) - Younger
ANYCRIME18	MoJ - any criminal offence - P18 - Elder
BMIE18	BMI – P18 - Elder
BMIY18	BMI – P18 - Younger
AUDSXE18	Alcohol use disorder symptoms scale (DSM5) - P18 - Elder
AUDSXY18	Alcohol use disorder symptoms scale (DSM5) - P18 - Younger
IMDDECILE_P18	Index of Multiple Deprivation Decile, age 18, IMD2015
IMDDECILY_P18	Index of Multiple Deprivation Decile, age 18, IMD2015
COHABE18	Twins living together at age 18 - Elder

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# Data Security Agreement

Provisional Paper Title	Adolescent loneliness and employment outcomes in young adulthood
Proposing Author	Bridget Bryan
Today's Date	21 September 2022

## Please keep one copy for your records

(Please initial your agreement)

- X I am familiar with the King's College London research ethics guidelines (https://www.kcl.ac.uk/innovation/research/support/ethics/about/index.aspx) and the MRC good research practice guidelines (https://www.mrc.ac.uk/research/policies-and-guidance-for-researchers/goodresearch-practice/).
- X My project has ethical approval from my institution.
- X I am familiar with the EU General Data Protection Regulation (https://mrc.ukri.org/documents/pdf/gdprguidance-note-3-consent-in-research-and-confidentiality/), and will use the data in a manner compliant with its requirements.
- X My computer is (a) encrypted at the hard drive level, (b) password-protected, (c) configured to lock after 15 minutes of inactivity, AND (d) has an antivirus client which is updated regularly.
- X I will treat all data as "restricted" and store in a secure fashion.
- X I will not share the data with anyone, including students or other collaborators not specifically listed on this concept paper.
- X I will not merge data from different files or sources, except where approval has been given by the PI.
- X I will not post data online or submit the data file to a journal for them to post. Some journals are now requesting the data file as part of the manuscript submission process. The E-Risk Study cannot be shared because the Study Members have not given informed consent for unrestricted open access. Speak to the study PI for strategies for dealing with data sharing requests from Journals.
- X Before submitting my paper to a journal, I will submit my draft manuscript and scripts for data checking, and my draft manuscript for co-author mock review, allowing three weeks.
- X I will submit analysis scripts and new variable documentation to project data manager after the manuscript gets accepted for publication.
- X I will delete the data after the project is complete.
- N/A **For projects using location data:** I will ensure geographical location information, including postcodes or geographical coordinates for the E-Risk study member's homes or schools, is <u>never</u> combined or stored with any other E-Risk data (family or twin-level data)
- N/A **For projects using genomic data:** I will only use the SNP and/or 450K data in conjunction with the phenotypes that have been approved for use in this project at the concept paper stage.

Signature:

Bbypn