LHCP 2023

11th Large Hadron Collider Physics Conference Belgrade, 22-26 May, 2023

EXPERIENCES FROM MENTAL HEALTH WORKSHOPS FOR LHC SCIENTISTS

Petra Loncar¹ on behalf of the ALICE, ATLAS, CMS, and LHCb Collaborations

¹ ALICE Junior Ambassador of Croatia, Faculty of Electrical Engineering, Mechanical Engineering and Naval Architecture, University of Split













"Mental health is a state of mental well-being that enables people to cope with the stresses of life, realize their abilities, learn well and work well, and contribute to their community."

"Health is a state of complete physical, mental and social well-being and not merely the absence of disease or infirmity."



IMPORTANCE OF MENTAL HEALTH



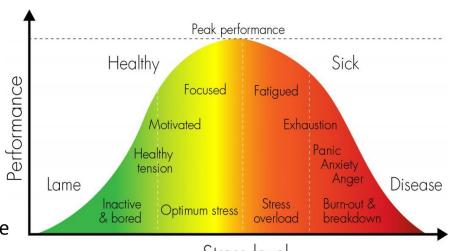
- important aspect of health
- prerequisite and determinant of quality of life
- personal, community, and socio-economic development

RISK FACTORS

- stress negative impact on mental and physical health
 - → work the biggest stress trigger
 - → **Academia** very stressful
- COVID-19 pandemic many changes in everyday life

WORKSHOPS' PURPOSE

 raising awareness of the importance of investing in mental and physical health



Stress level

Source: Yerkes-Dodson law, mental health workshop materials, February 2023



having enough energy to take care of other people

peace of mind

feeling motivated for work

not feeling overwhelmed

What does mental well-being mean to you?

not feeling under pressure

perform at the best of my ability

having enough time to rest

having a stable job

good relations with colleagues



fears about impact of war and crises

worries about uncertain future

high workload and lack of time

depression

inefficiency during working hours

sadness

exhaustion

mental

phobia

anxiety

Are you currently facing any mental well-being challenges?

being forced to move to another country

high stress level

struggling with choice between family and career constantly being under pressure

burnout

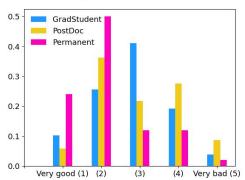


 survey about self-assessment of mental health among LHCb scientists
 (Dec 2020 vs. pre-pandemic)

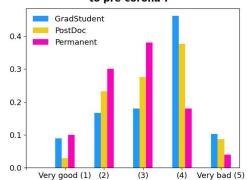
KEY RESULTS

- → big decline in the mental health state
- → larger impact on graduate students and post-docs and those living abroad

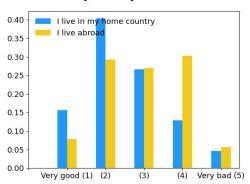
How would you rate your mental health?



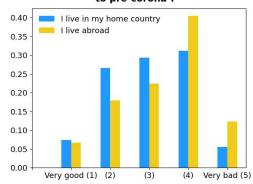
How would you rate your mental health compared to pre-corona?



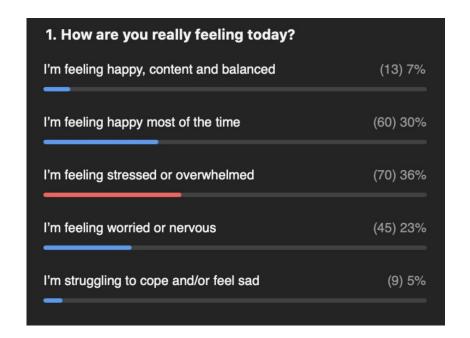
How would you rate your mental health?

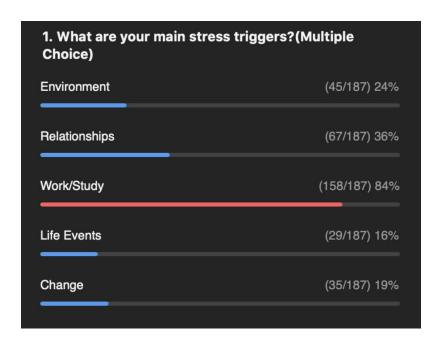


How would you rate your mental health compared to pre-corona?









Source: Anonymous survey among early career scientists of ALICE, ATLAS, CMS, and LHCb carried out during Covid (2021)

COLLABORATION'S DESIRES



learn how to ...

- find a balance between work and other activities and "switch off" the brain
- cope with self-doubt, work-induced stress, depression, career-related anxiety
- cope with the competitive environment we work in and work under pressure
- promote mental health and create a safe environment in a big collaboration
- help people with mental health issues
- talk about mental health with colleagues

learn about...

- time management, productivity, and self confidence
- the effect of national or global crises/wars on the mental health
- the importance of mental health and therapy and how to spot warning signs

MENTAL HEALTH WORKSHOPS AT THE LHC



May 2021

Mental health and well-being workshop for early-career scientists at the LHC



Organised by the Early Career Scientists Fora (ECSF)

ALICE Week, June 2022

Fostering mental well-being workshop for ALICE scientists
Organised by the ALICE Junior Representatives and ALICE management



ATLAS Week, February 2023

Mental health and well-being workshop for early-career scientists at the LHC
Organised by the ATLAS Early Career Scientist Board



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MENTAL HEALTH WORKSHOPS AT THE LHC



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ALICE Week, February 2023

Mental health and well-being workshop for ALICE scientists
Organised by the ALICE Junior Representatives and ALICE management

All workshops were conducted by Sarah Speziali, a therapist and life coach specialised in workplace mental well-being.

www.sarahspeziali.com

WORKSHOPS' GOALS



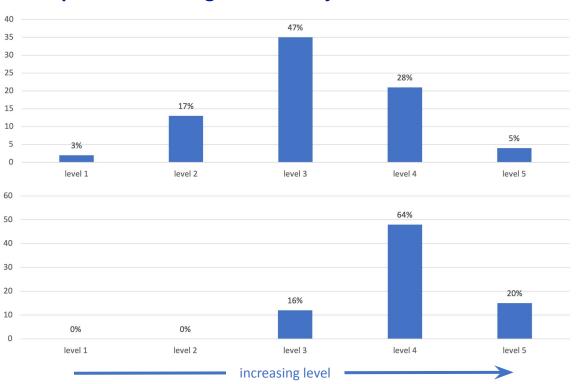
- understand the differences between good and poor mental health
- identify factors that influence mental health
- spot signs of mental health issues
- build mental resilience and well-being routines
- integrate strategies for coping with stress, anxiety, and depression
- discover your inner resources
- practice self-care
- improve work-life balance



WORKSHOPS' OUTCOME



Participant's knowledge of the subject

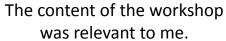


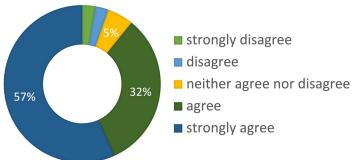
BEFORE attending the workshop

AFTER attending the workshop

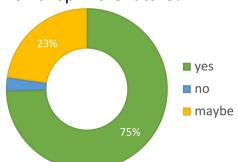
WORKSHOPS' OUTCOME



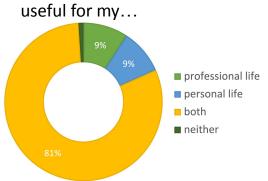




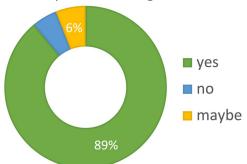
Would you take part in a similar workshop in the future?



The workshop was useful for my...



Would you recommend this kind of workshop to a colleague?



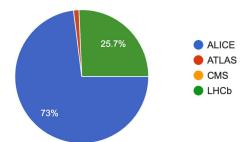
WORKSHOPS' OUTCOME





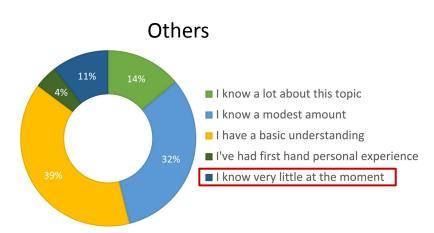


The current state was assessed via an anonymous survey among scientists from...

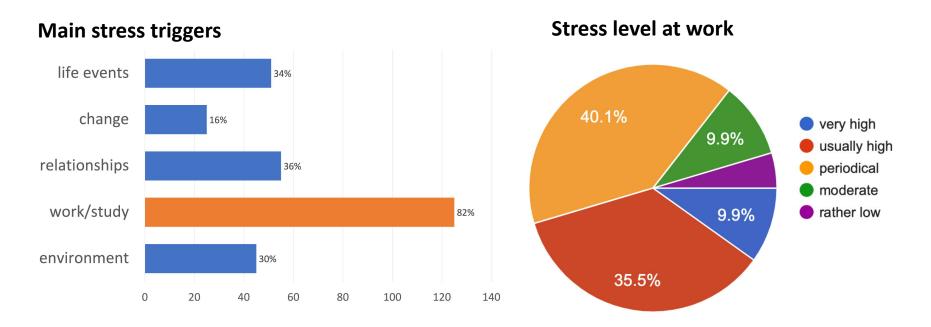


General knowledge about the topic among...

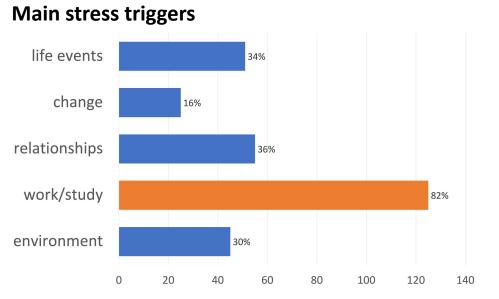




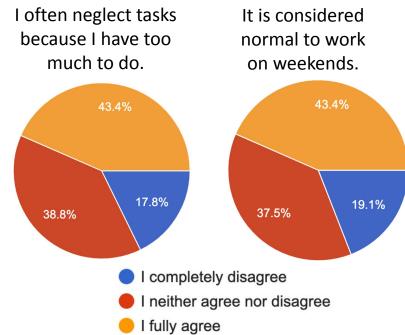








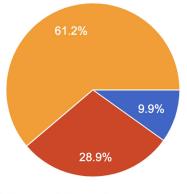
Short-term stress triggers





Long-term stress triggers

It is hard to find a maintain a work-life balance.

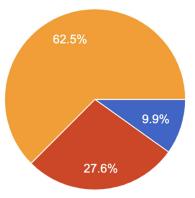


I completely disagree

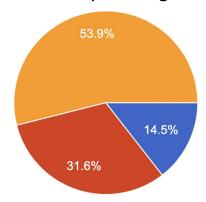
I neither agree nor disagree

I fully agree

It is hard to plan my future career.



I am uncertain that I will achieve my career goals.



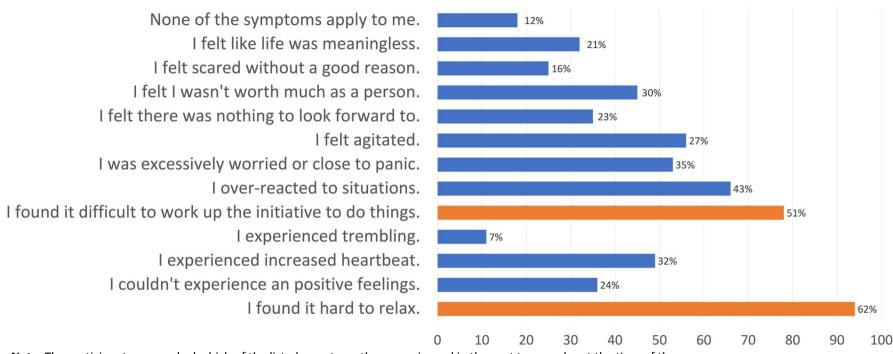
Sources of stress

Workload which many scientists cannot cope with is paired with uncertainty about future career.

18



Symptoms LHC scientists experience regularly

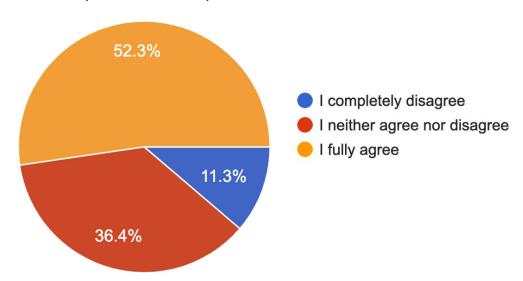


Note: The participants were asked which of the listed symptoms they experienced in the past two weeks, at the time of the survey.



Awareness of work-related mental health challenges and colleagues as support network

My colleagues are willing to listen to my work-related problems.



There is a need and desire to raise awareness of mental health challenges and to keep the discussion ongoing.

KEY TAKEAWAYS FROM MENTAL HEALTH INITIATIVES AT THE LHC

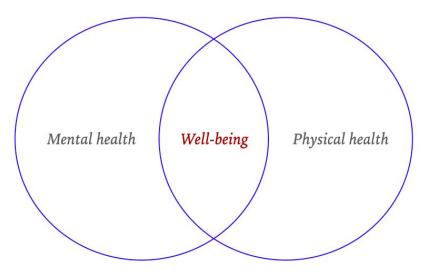


For individuals

- prioritize and practice self-care
- engage in moderate physical activity
- familiarize yourself with coping strategies

For collaborations

- there is a large desire to establish mental health as a community value
- mental health workshops are a good way to achieve that goal
- the topic should be a priority for management and collaboration members alike



Source: Healthy Minds for Master Minds workshop "Fostering mental well-being workshop" (ALICE Week, June 2022)

ACKNOWLEDGMENTS



Workshop organisation: LHC Early Career Scientists Fora (ECSF)











Conducting the workshops: <u>Sarah Speziali</u> (therapist and life coach)



Support: ALICE and ATLAS management





All workshop participants!





Thank you for your attention!

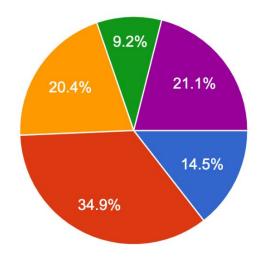


BACKUP

SURVEY DEMOGRAPHICS



What is your age range?

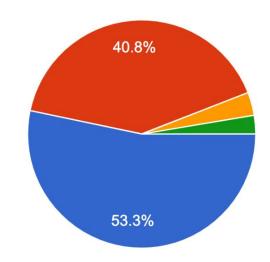


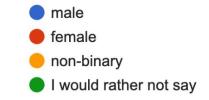


SURVEY DEMOGRAPHICS



What is your gender?

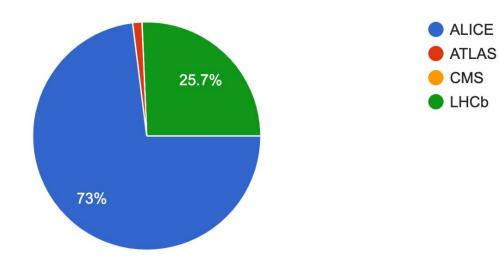




SURVEY DEMOGRAPHICS



What is your experiment affiliation?

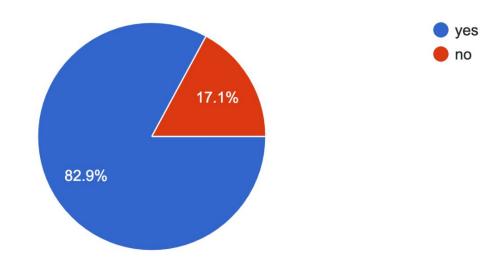


FUNDING AND WORK SITUATION



Is the funding sufficient to cover your living costs?

152 responses

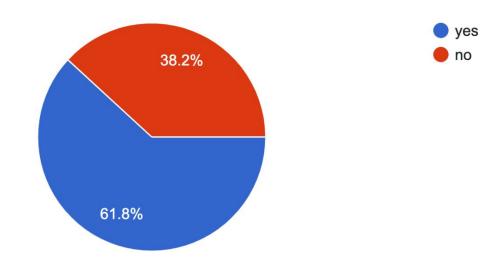


FUNDING AND WORK SITUATION



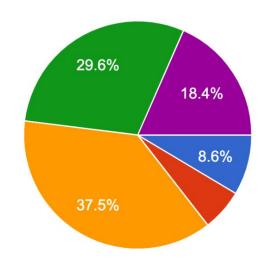
Do you feel you are living close enough to your family and support network?

152 responses





How much do you know about mental health? 152 responses

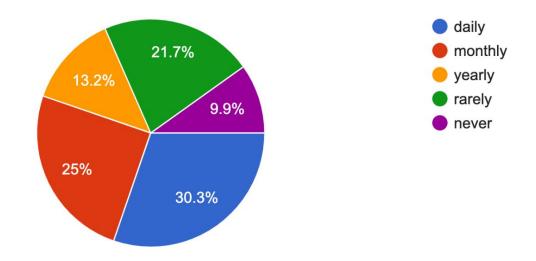


- I know very little at the moment
- I've had first hand personal experience
- I have a basic understanding
- I know a modest amount
- I know a lot about this topic



Do you have experience dealing with a mental health challenge?

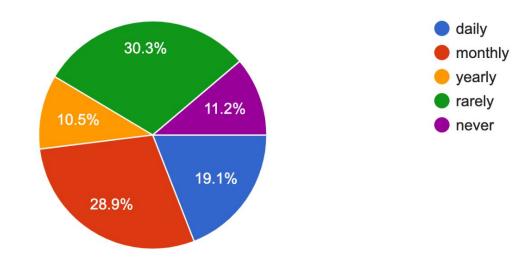
152 responses





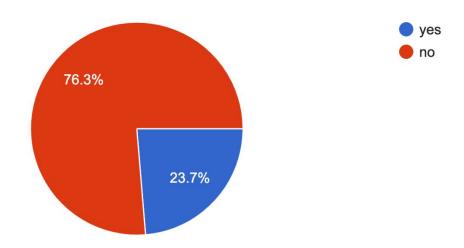
Do you have experience supporting someone with a mental health challenge?

152 responses





Did you attend one of the Mental Health Workshops which have been conducted at the LHC in the past two years?

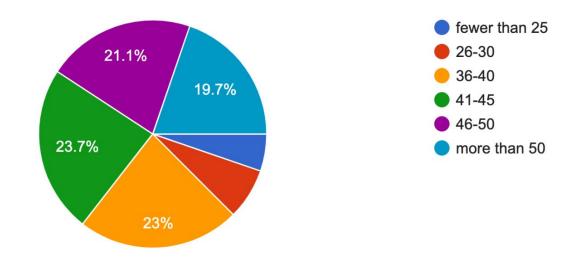


WORK ENVIRONMENT



In the last month how many hours have you worked approximately per week?

152 responses

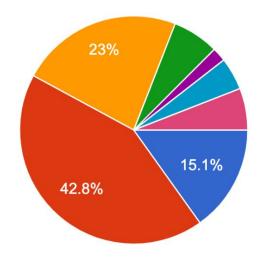


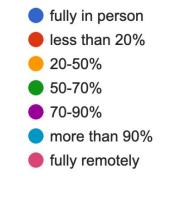
WORK ENVIRONMENT



How much of your work has been done remotely?

152 responses

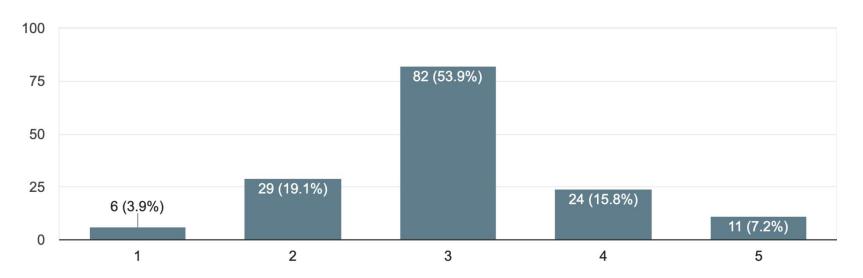




WORK ENVIRONMENT

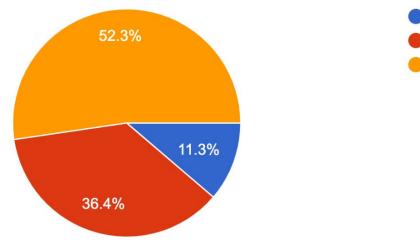


How does working remotely affect your workload?





My colleagues are willing to listen to my work-related problems.

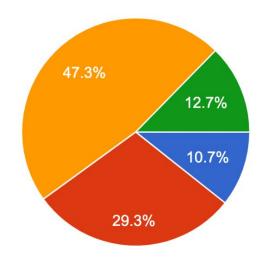


- I completely disagree
- I neither agree nor disagree
- I fully agree



My supervisor helps me to achieve goals and find solutions to my problems.

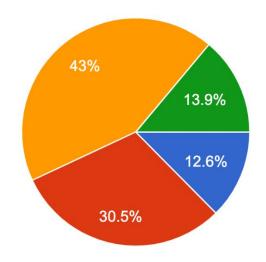
150 responses



- I completely disagreeI neither agree nor disagree
- I fully agree
- I don't have a supervisor



My supervisor motivates me to do the best job I can.

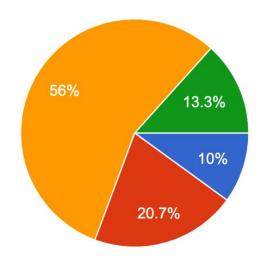


- I completely disagree
- I neither agree nor disagree
- I fully agree
- I don't have a supervisor



My supervisor cares about my needs and treats me fairly.

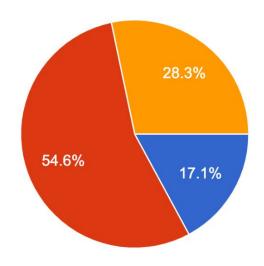
150 responses



- I completely disagree
- I neither agree nor disagree
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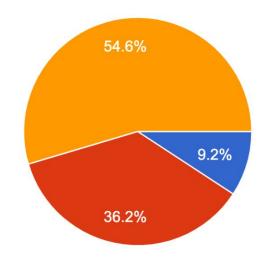
I have achievable deadlines.



- I completely disagree
 - I neither agree nor disagree
- I fully agree



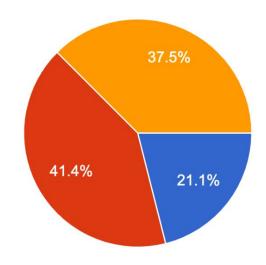
I have a say in my work speed and how to do my work.



- I completely disagree
- I neither agree nor disagree
- I fully agree



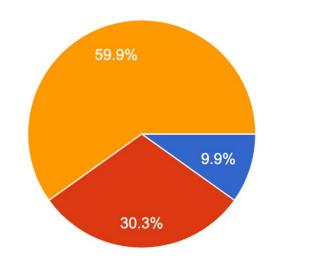
I feel pressured to work long hours.



- I completely disagree
 - I neither agree nor disagree
- I fully agree



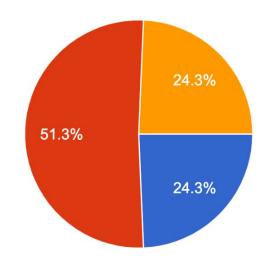
Most of my colleagues work beyond their official work hours.



- I completely disagree
- I neither agree nor disagree
- I fully agree



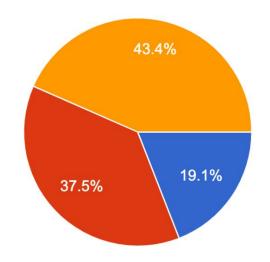
Senior colleagues encourage overtime.



- I completely disagreeI neither agree nor disagree
- I fully agree



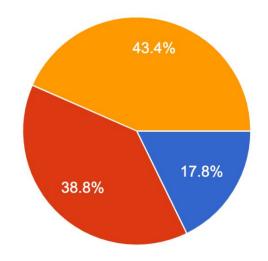
It is considered normal to work on weekends.



- I completely disagreeI neither agree nor disagree
- I fully agree



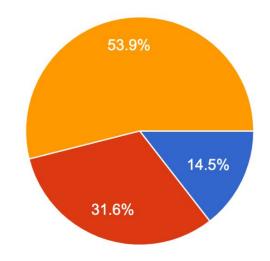
I often neglect tasks because I have too much to do.



- I completely disagree
- I neither agree nor disagree
- I fully agree



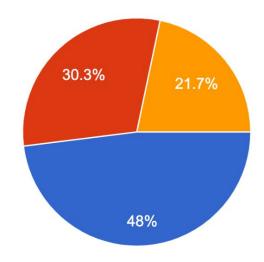
I am uncertain that I will achieve my career goals.



- I completely disagree
 - I neither agree nor disagree
- I fully agree



I am confident about my future professional development.

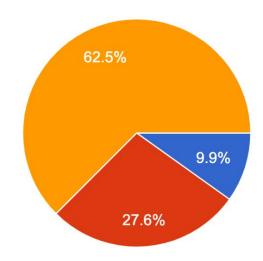


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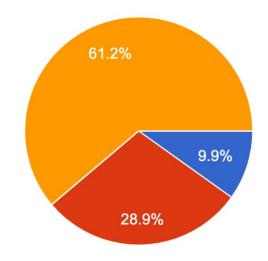
It is hard to plan my future career.



- I completely disagree
- I neither agree nor disagree
- I fully agree



It is hard to find and maintain a work-life balance.



- I completely disagreeI neither agree nor disagree
- I fully agree



Did you experience any of the following symptoms in the past 2 weeks? Select the symptoms which apply to you.

